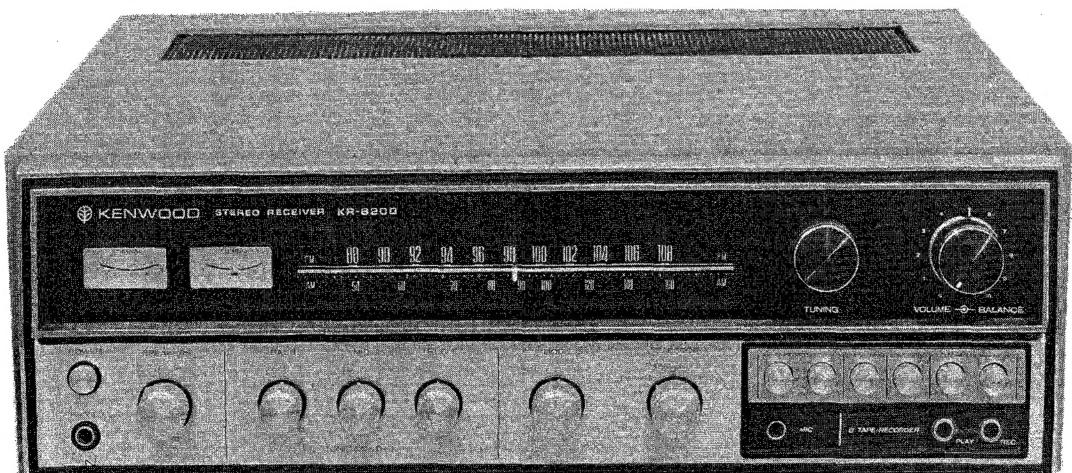


KENWOOD
HI/FI STEREO COMPONENTS

SERVICE MANUAL

KR-6200



STEREO RECEIVER

SPECIFICATIONS

FM TUNER SECTION

| | |
|--|---------------------------------------|
| Antenna Impedance | 300/75Ω |
| Usable Sensitivity (IHF) | 1.7μV |
| Harmonic Distortion (at 400Hz 100% Mod.) | |
| MONO | 0.5% |
| STEREO | 0.6% |
| Signal to Noise Ratio | 66 dB |
| Capture Ratio | 1.5 dB |
| Selectivity (Alt. CH.) (IHF) | 65 dB |
| Image Rejection | 80 dB |
| IF Rejection | 100 dB |
| Spurious Signal Rejection | 100 dB |
| AM Suppression | 70 dB |
| Stereo Separation (at 1kHz) | 40 dB |
| (at 10kHz) | 25 dB |
| Sub Carrier Suppression | 60 dB |
| Muting Level | 10μV |
| Quieting Slope | 52 dB 5μV 59 dB 10μV 66 dB 50μV |
| Frequency Response | 20 ~ 15 kHz +0.5 dB, -2 dB, |
| Front End | 2 FETs (1 DG), 4 Gang |
| IF Stage | 1 IC, 3 element mechanical filters |

AM TUNER SECTION

| | |
|---------------------------------|---|
| Antenna | Built in ferrite bar antenna and external antenna terminal. |
| Usable Sensitivity (IHF) | 15μV |
| Signal to Noise Ratio | 45 dB |
| Selectivity (IHF) | 35 dB |
| Image Rejection | 70 dB |
| IF Rejection | 70 dB |
| Front End | 3 Gang |
| IF Stage | 2 Stages |

AMPLIFIER SECTION

| | |
|---------------------------------------|-------------------|
| Dynamic Power Output (IHF) | |
| Both CH. 4Ω 1kHz | 240 watts |
| Both CH. 8Ω 1kHz | 190 watts |
| Continuous Power Output | |
| Each CH. 4Ω 1kHz | 80/80 watts |
| Each CH. 8Ω 1kHz | 60/60 watts |
| Both CH. 4Ω 1kHz | 60/60 watts |
| Both CH. 8Ω 1kHz | 50/50 watts |
| Both CH. 8Ω 20 ~ 20kHz | 45/45 watts |
| Harmonic Distortion (at rated) | 0.5% |
| (at -3 dB rated) | 0.1% |
| I.M. Distortion (at rated) | 0.5% |
| (at -3 dB rated) | 0.2% |
| Frequency Response | 20 ~ 40 kHz ±2 dB |
| (High Level Input) | |

| | |
|----------------------------------|----------------|
| Power Band Width (IHF) | 13 ~ 30,000 Hz |
| Input Sensitivity | |
| PHONO | 2.5 mV 50 kΩ |
| MIC | 3 mV 50 kΩ |
| AUX 1 | 180 mV 50 kΩ |
| AUX 2 | 180 mV 50 kΩ |
| TAPE PLAY A | 180 mV 50 kΩ |
| TAPE PLAY B | 180 mV 50 kΩ |
| Recording Output | |
| TAPE REC A | 180 mV |
| TAPE REC B | 180 mV |
| DIN | 36 mV |
| Damping Factor (at 8Ω) | 50 |
| Hum and Noise | |
| PHONO | 65 dB |
| MIC | 55 dB |
| AUX 1 | 75 dB |
| AUX 2 | 75 dB |
| TAPE PLAY A | 75 dB |
| TAPE PLAY B | 75 dB |
| Speaker Impedance | 4 ~ 16Ω |
| Tone Control | |
| BASS (at 100Hz) | ±12 dB |
| MID (at 1kHz) | ±8 dB |
| TREBLE (at 10kHz) | ±12 dB |
| Filter | |
| LOW (at 100Hz) | -7 dB |
| HIGH (at 10kHz) | -10 dB |
| Loudness Control (-30 dB) | |
| at 100Hz | +10 dB |
| at 10kHz | +5 dB |

GENERAL

| | |
|--------------------------|--|
| Switches | |
| SPEAKERS | OFF-A-B-C-A+B-A+C |
| SELECTOR | AM-FM-PHONO-AUX 1-AUX 2-MIC |
| MODE | LEFT-RIGHT-STEREO-REV-MIX |
| OTHERS | TAPE MONITOR A, TAPE MONITOR B, LOW-HIGH FILTER, FM MUTING, LOUDNESS, MIC jack |
| AC Outlets | |
| SWITCHED | 2 |
| UNSWITCHED | 1 |
| Semiconductors | 2 FETs, 1 IC, 54 Transistors, 43 Diodes |
| Power Consumption | |
| at full power | 320 watts |
| at no signal | 40 watts |
| Dimensions | 17-1/8"(W) x 5-3/4"(H) x 14"(D) |
| Weight | 29.0 lbs. |
| Walnut Cabinet | |
| (included in price) | YES |

TROUBLE SHOOTING

| Symptom | CHECK Unit (Page) | | | | | |
|--|-------------------|-----------------|------------|------------|-------------|-----------------|
| | R.f. (4) | I.f. (4 ~ 5) | MPX (5) | Pre (6) | Tone (6) | Main (6 ~ 7) |
| No sound | | | | ● | ● | ● |
| Distortion | | ● | | | | ● |
| Noise | | ● | | ● | ● | ● |
| Dynamic range | | | | ● | | |
| Hum | | | | ● | ● | |
| Crosstalk | | | | ● | | |
| Shifting voltage of output terminal | | | | | | ● |
| Oscillation | | | | | | ● |
| Heated transistor | | | | | | ● |
| Tone | | | | | ● | |
| Poor output of low frequency in PHONO position | ● | | | ● | | |
| Protection | ● | | | | | ● |
| Out of dial calibrations | | ● | | | | |
| Not light stereo indicator | | ● | ● | | | |
| Drift | ● | | | | | |
| Separation | ● | | | | | |
| Interference | ● | ● | | | | |
| Carrier-leak | | | ● | | | |
| Sensitivity | ● | ● | | | | |
| Muting | | ● | | | | |
| Meter | | ● | | | | |
| Not receive f.m. broadcastings | ● | ● | | | | |
| Not receive a.m. broadcastings | | ● | | | | |

Note: This troubleshooting has not power supply, sub unit and etc..

■ R.f. Unit (X01-1030-10)

| Complaint | Possible cause | Repairs |
|--------------------------------|--|---------------------------|
| Not receive f.m. broadcastings | Poor connection of supply voltage line. | Check the terminal No. 3. |
| | Faulty transistor Qa3. | Check and replace. |
| Poor sensitivity | Poor adjustment of trimmer CTa8. | Readjustment. |
| | Poor adjustment. | Readjustment. |
| Out of calibrations | Faulty FETs Qa1, 2. | Check and replace. |
| | Poor connection of supply voltage line. | Check coils La5, 6. |
| Drift | Poor adjustment of local oscillation. | Readjustment. |
| | Faulty trimmer CTa4 of local oscillator. | Check and replace. |
| Interference | Poor adjustment. | Readjustment |

■ I.f. Unit (X02-1020-10)

| | | |
|--|--|---|
| Not light stereo indicator | Poor adjustment of coil Lb6 and potentiometer VRb3. Faulty transistors Qb7, 8 and diode Db11. | Readjustment Check and replace. |
| Not operate f.m. muting | Faulty or poor adjustment of MPX unit. Faulty transistors Qb9, 10 and diode Db12. | Check and replace, or readjust Check and replace. |
| Not receive broadcastings with muting off (but signal meter's pointer swings) | Faulty transistor Qb10. Faulty IC ICb1. | Check collector of Qb10 to be 0V under operating. Check and replace. |
| Distortion | Faulty diodes Db4, 5 and coil Lb3. Poor adjustment of coil Lb3. | Check and replace. Readjustment |
| Poor f.m. sensitivity. (but signal meter's pointer swings) | Faulty transistors Qb4, 5, and IC ICb1. | Check and replace. |
| (Not meter's pointer swings) | Faulty transistors Qb1 ~ 3. | Check and replace. |

■ I.f. Unit (X02-1020-10)

| Complaint | Possible cause | Repairs |
|--|--|---------------------------|
| Not receive f.m. broadcastings. (but singal meter's pointer swings) | Faulty transistor Qb _{4, 5} and IC ICb ₁ . | Check and replace. |
| (But meter's pointer not swing) | Poor connection of supply voltage line. | Check the terminal No. 6. |
| Not receive (a.m.) | Faulty transistors Qb _{11 ~ 15} . | Check and replace. |
| Noise (a.m.) | Faulty variable capacitor. | Check it. |
| Interference (a.m.) | Faulty trans. and coils Lb _{11 ~ 15} . | Check and replace. |
| Distortion (a.m.) | Faulty diodes Db _{13, 14} . | Check and replace. |
| Poor sensitivity (a.m.) | Faulty transistors Qb _{11 ~ 14} . | Check and replace. |

■ MPX Unit (X04-1010-10)

| | | |
|--|--|--|
| Not light stereo indicator | Faulty pilot lamp. Poor i.f. stage. Poor adjustment of potentiometer VRc ₂ . Faulty transistors Qc _{2, 4 ~ 7} . | Check and replace. Readjustment Readjustment Check and replace. |
| Not separate (but stereo indicator lights) | Faulty of transistor Qc ₃ and coil Lc ₄ . | Check and replace. |
| Poor separation | Poor adjustment of coils Lc _{2 ~ 4} and potentiometer VRc ₁ . Faulty diodes Dc _{3 ~ 10} . | Readjustment Check and replace. |
| Carrier-leak | Faulty diodes Dc _{3 ~ 10} . Faulty capacitor Cc _{9, 10} . Faulty low-pass filter Lc ₅ . | Check and replace. Check and replace. Check and replace. |

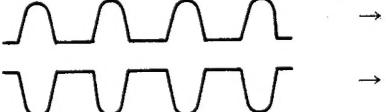
■ Preamp Unit (X08-1080-10)

| Complaint | Possible cause | Repairs |
|--|---|--------------------|
| No sound | Faulty transistors Qj1 ~ 4. | Check and replace. |
| Noise | Faulty transistors Qj1, 2, resistors Rjs, 6, 25, 26, and capacitors Cj1, 2, 21, 22. | Check and replace. |
| Dynamic range | Faulty transistors Qj1, 2 and capacitors Cj1, 2. | Check and replace. |
| Hum | Faulty capacitor Cj23, 24. | Check and replace. |
| Poor output of low frequency at phono position | Faulty capacitor Cj15, 16, 19, 20. | Check and replace. |

■ Toneamp Unit (X11-0007-11)

| | | |
|---------------|---|--------------------|
| No sound | Faulty transistors Qi1 ~ 4. | Check and replace. |
| Boost and cut | Faulty potentiometers VRi1 ~ 3 and transistors Qi3, 4. | Check and replace. |
| Noise | Faulty transistors Qi1 ~ 4, resistors Ri27, 28, and capacitors Ci1 ~ 4, 15, 16, 21, 22. | Check and replace. |

■ Mainamp Unit (X07-1110-10)

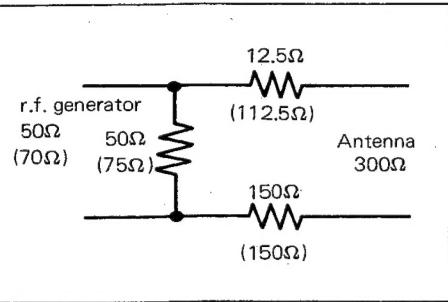
| | | |
|--------------------------------------|---|--|
| No sound. (protection relay is off.) | In case of operating protections, faulty transistors Qe1 ~ 10. Faulty resistors Rq2, 3. In case of not operating protections, faulty transistors Qe13 ~ 15. | Check and replace (replacement order, first Qe7 ~ 10, second Qe5, 6, third Qe1 ~ 4). Check and replace. Check and replace. |
| Distortion | Faulty resistors Rq1 ~ 4. Output waveform.  | Check and replace. Check resistors Rq3, 4 |
| (Crossover distortion.) | Faulty varistors D1, 2, and potentiometers VRe1, 2. | Check resistors Rq1, 2 Check and replace. |
| Hum | Faulty capacitor Ce16. | Check and replace. |
| Noise | Faulty transistors Qe1 ~ 4, diode De1 and capacitors Ce3, 4, 7, 8. | Check and replace. |
| Shock noise | Faulty capacitor Ce18 and transistors Qe14, 15. | Check and replace. |

■ Mainamp Unit (X07-1110-10)

| Complaint | Possible cause | Repairs |
|-------------------------------------|---|--------------------|
| Shifting voltage of output terminal | Faulty transistors Qe ₁ ~ 4, and diode De ₁ . | Check and replace. |
| Oscillation | Faulty capacitor Ce _{1, 2, 9, 10} , Cq _{1, 2} , and resistor Rq _{5, 6} . | Check and replace. |
| Heated power transistor | Faulty potentiometers VRe _{1, 2} , and varistors D _{1, 2} . | Check and replace. |
| Heated drive stage transistor | Faulty resistors Rq _{1 ~ 4} . | Check and replace. |
| Misoperation of protection circuit | Faulty diodes De _{2 ~ 4} , and transistors Qe _{11, 12} . | Check and replace. |

ADJUSTMENT

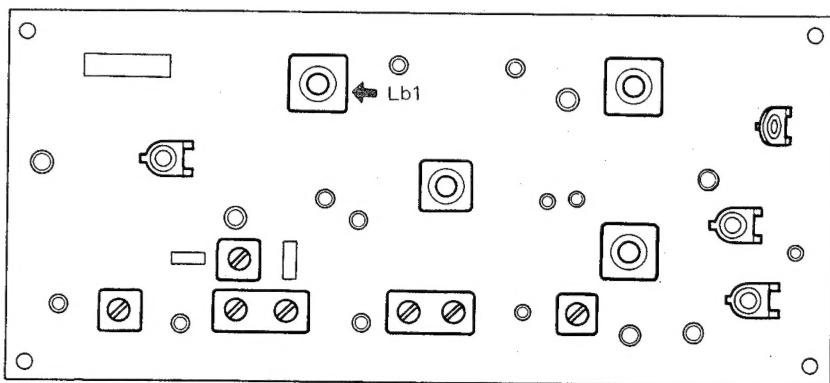
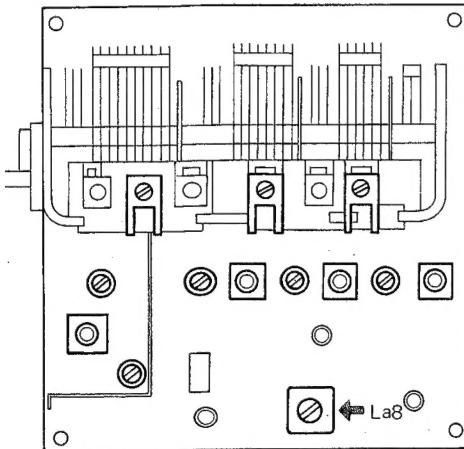
[BEFORE ADJUSTMENT]



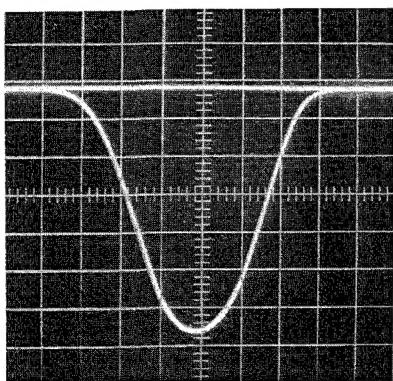
▲ Dummy antenna

[ADJUSTING FM-IFT]

1. Connect the sweep generator being set to 10.7 MHz to test point 1 (TP1) through a capacitor 3 pF.
2. Connect the oscilloscope to test point 2.
3. Adjust i.f. trans La8, Lb1 so that output is the best.

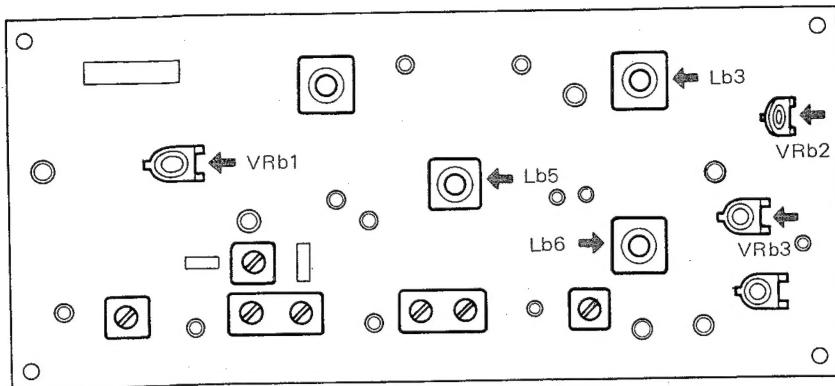


▼ Waveform of test point 2



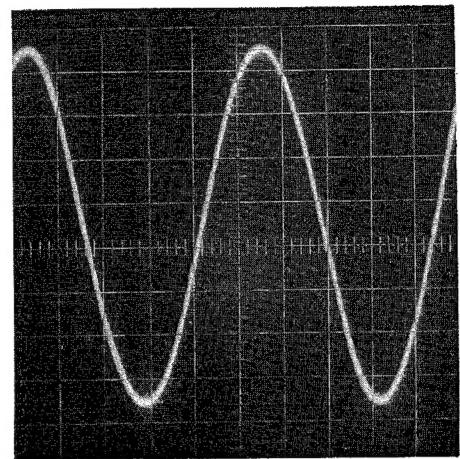
[ADJUSTING DISCRIMINATOR]

1. With no test equipments, adjust the secondary (top) of discriminator coil Lb3 so that tuning meter's pointer is between the center zone.
2. Connect d.c. voltmeter to test point 3.
3. Connect the r.f. generator being set 98 MHz, no modulation, antenna input of $5 \sim 7 \mu\text{V}$ to antenna terminal.
4. Adjust trigger coil Lb6 so that voltmeter is max.
5. Adjust meter coil Lb5 so that signal meter is max.
6. Set the output of r.f. generator so that voltmeter is 2.5V at test point 3.
7. Adjust the potentiometer VRb3 so that voltmeter is 2V at test point 3.
8. Switch the output of r.f. generator being set antenna input of $7\mu\text{V}$ to antenna terminal.
9. Adjust the potentiometer VRb1 so that voltmeter is 1.4V at test point 3.
10. Connect the r.f. generator being set 98 MHz, modulation of 400 Hz, deviation of 75 kHz, to antenna terminal and the oscilloscope and VTVM to REC jack.
11. Adjust the primary (bottom) of discriminator coil Lb3 so that distortion is min.
12. Adjust the potentiometer VRb2 so that voltmeter is 1V at REC jack.

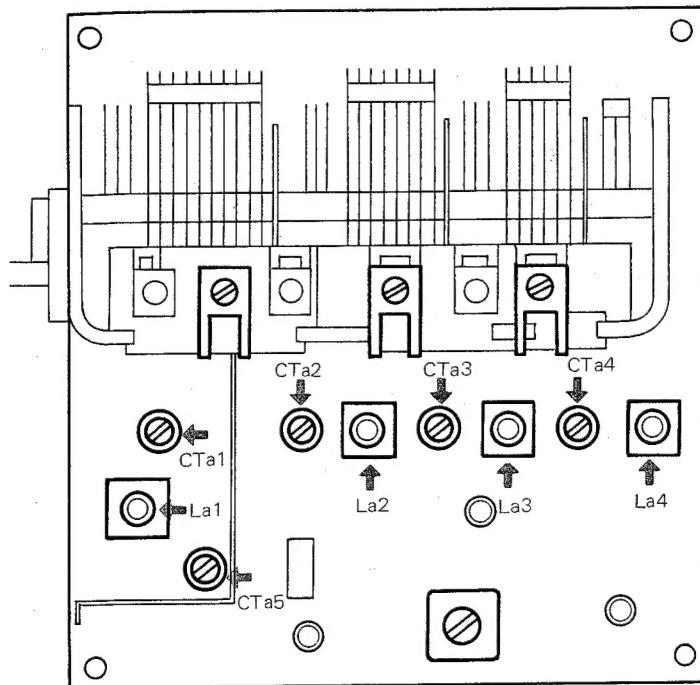


[ADJUSTING TRACKING]

1. Connect the r.f. generator to antenna terminal through a dummy antenna.
2. Set the r.f. generator to 90 MHz, the modulation of 400 Hz, the deviation of 75 kHz, and the input of $10 \mu V$.
3. Connect the VTVM to the recording jack (REC jack).
4. Meet the dial pointer to 90 MHz on the dial calibrations.
5. Adjust the core of r.f. trans $La1 \sim 3$ and local oscillator coil $La4$ so that the output is the maximum.
1. Set the r.f. generator to 106 MHz, the modulation of 400 Hz, the deviation of 75 kHz and the input of $10 \mu V$.
2. Meet the dial pointer to 106 MHz on the dial calibrations.
3. Adjust the trimmer $CTa1 \sim 4$ so that the output is the maximum.
* If there is internal oscillation, adjust the trimmer $CTa5$.

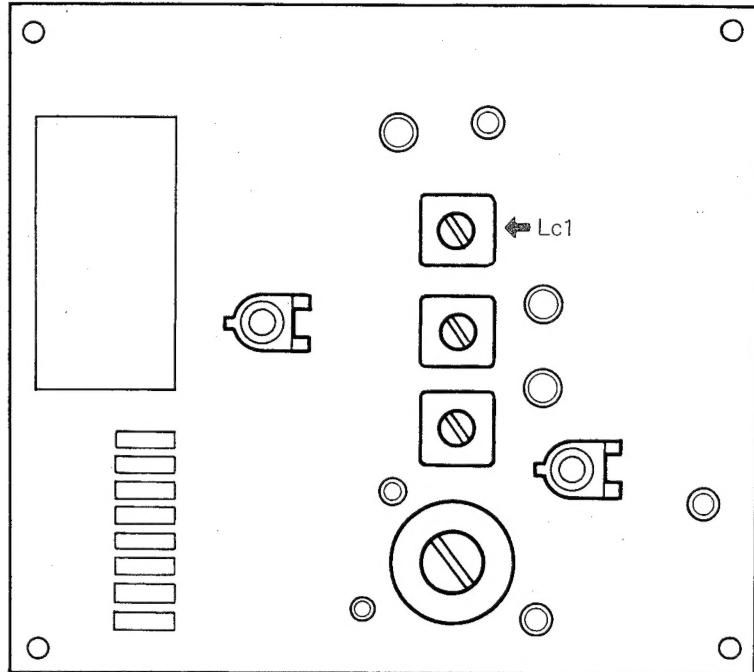


▲ Waveform of Rec jack



[ADJUSTING SCA FILTER]

1. Connect the audio generator being set to 67 kHz to the test point 4.
2. Connect the VTVM to the test point 5.
3. Adjust the core of Lc1 so that the output is the minimum.

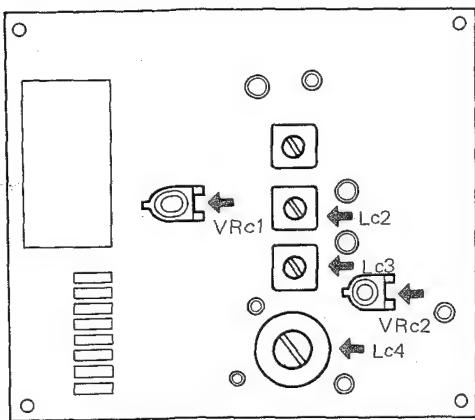


[ADJUSTING MPX]

1. Set the MPX generator to the following.

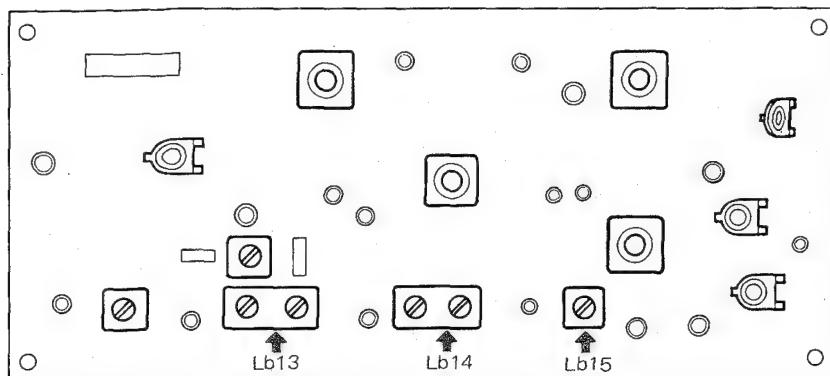
| | | | | |
|------------|----------|-----------|---|----------|
| SELECTOR | → A + B | PHASE | → | NORMAL |
| MODULATION | → 400 Hz | DEVIATION | → | 67.5 kHz |
2. Connect the r.f. generator to the antenna terminal and the VTVM to the test point 6.
3. Adjust the core of Lc2 ~ 4 so that the output is the maximum.
4. Switch the selector of MPX generator of A - B (reverse).
5. Remove the VTVM to the REC jack.
6. Adjust the core of Lc4 so that the output is the best.
7. Switch the selector and deviation of the MPX generator to A + B and 40 kHz.
8. Adjust the potentiometer VRc2 so that stereo indicator is on.
9. Switch the selector of the MPX generator to A (R).
10. Adjust the potentiometer VRc1 so that the output is the minimum.
11. Switch the selector of the MPX generator to B (L).
12. Adjust the potentiometer VRc1 so that the output is the minimum.

Note: In case of difference between right and left set the potentiometer (VRc1) to average.



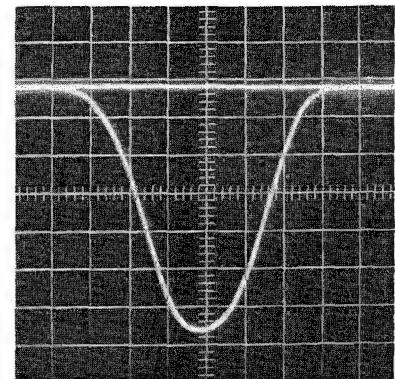
[ADJUSTING AM-IFT]

1. Connect the sweep generator being set to 455 kHz to antenna terminal.
2. Connect the oscilloscope to the test point 7.
3. Adjust the core of i.f. trans Lb13 ~ 15 so that the output is the best.

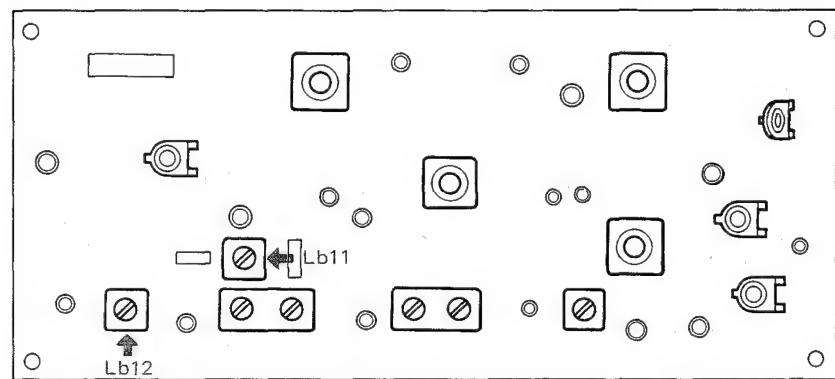
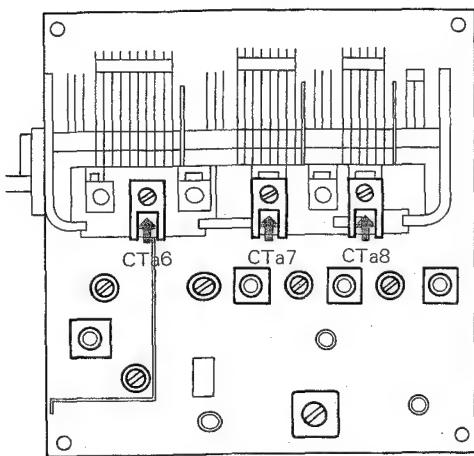


[ADJUSTING TRACKING]

1. Connect the r.f. generator being set to 600 kHz, modulation of 30% at 400 Hz to antenna terminal.
2. Connect the VTVM to the REC jack.
3. Meet the dial pointer to the 600 kHz on the dial calibrations.
4. Adjust the osc-trans. Lb11 r.f.-trans. Lb12 and ferrite antenna so that the output is the max.
1. Connect the r.f. generator being set to 1,400 kHz, modulation of 30% at 400 Hz to antenna terminal.
2. Connect the VTVM to the REC jack.
3. Meet the dial pointer to the 1,400 kHz on the dial calibrations.
4. Adjust the trimmer CTa6 ~ 8 so that the output is the max.

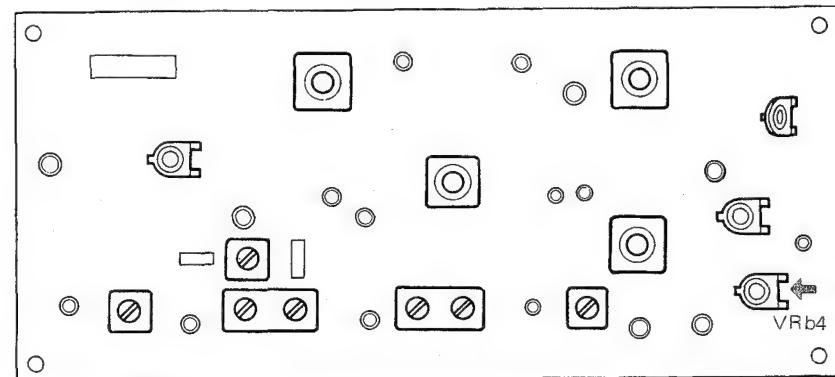


▲ Waveform of test point 7



[ADJUSTING METER]

1. Connect the r.f. generator to antenna terminal.
2. Meet the dial pointer to the 1,000 kHz on the dial calibrations.
3. Adjust the potentiometer (VRb4) so that the signal meter indicates "5".



AUDIO ADJUSTMENT

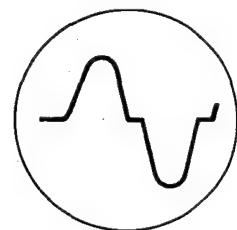
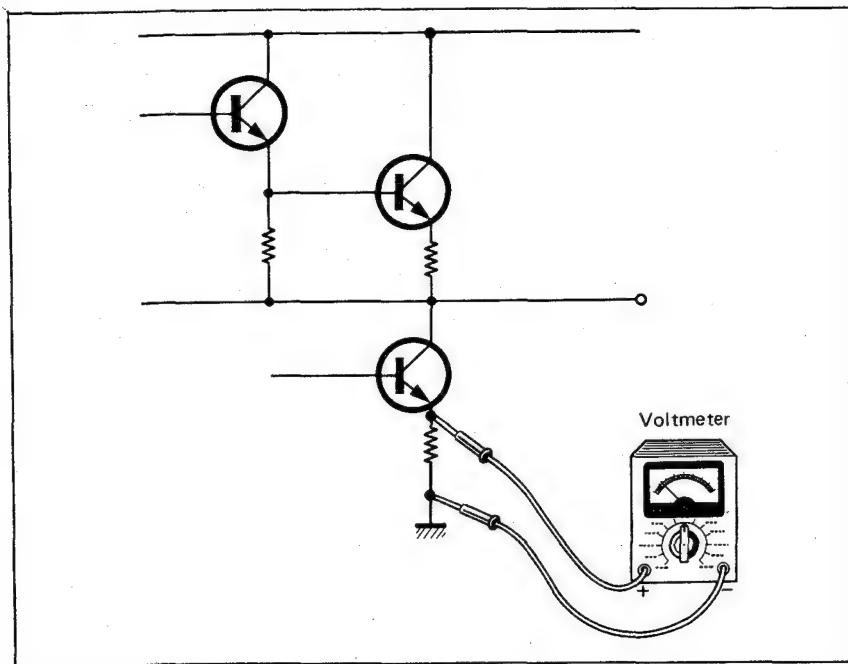
[BIAS CURRENT]

In the case of using the voltmeter

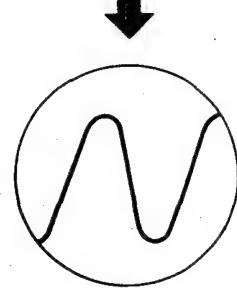
1. Connect the voltmeter across the emitter resistor of power transistors.
2. Check the voltmeter to be 20mV.
3. If not, turn the PC trimmer potentiometer (VRe1, 2) so that the meter has rating value.

In the case of using the audio generator and oscilloscope, etc.

1. Connect the dummy load (8Ω) to speaker terminal and do the oscilloscope across the dummy.
2. Feed the signal (1 kHz) to the set.
3. Check the waveform to be the best.
4. If not, turn the PC trimmer potentiometer (VRe1, 2) so that the waveform is distortionless.
5. Check the voltmeter to be 20mV.



Distorted waveform



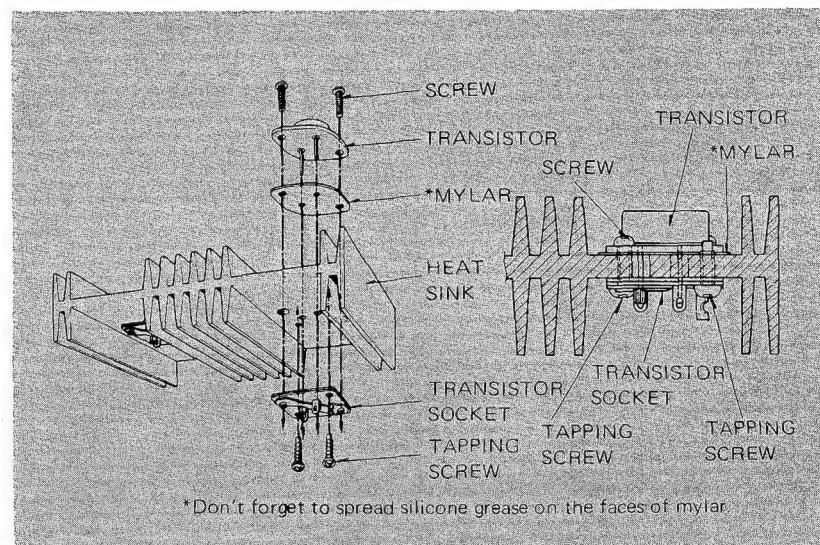
Best waveform

HOW TO REPLACE POWER TRANSISTOR

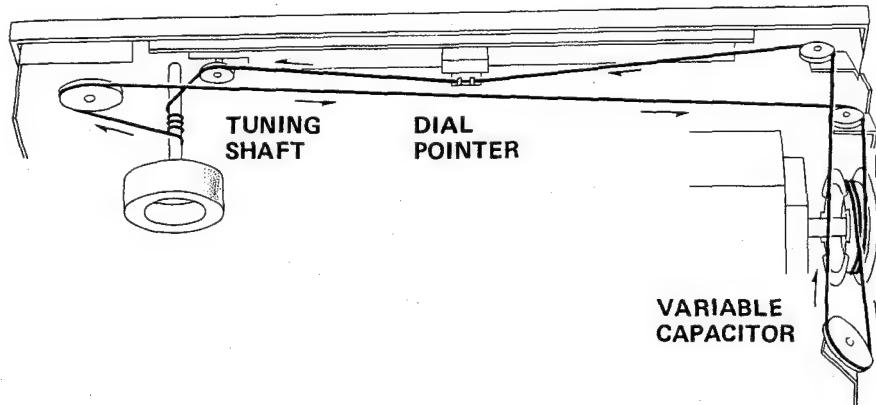
[REPLACING POWER TRANSISTOR]

1. Remove screws (not tapping screw).
2. Replace the power transistor with new.
At this time, don't forget to spread silicone grease on faces of mylar.
3. Fix the power transistor with screw on the heat sink.
4. Check the transistor is not in contact with the heat sink.

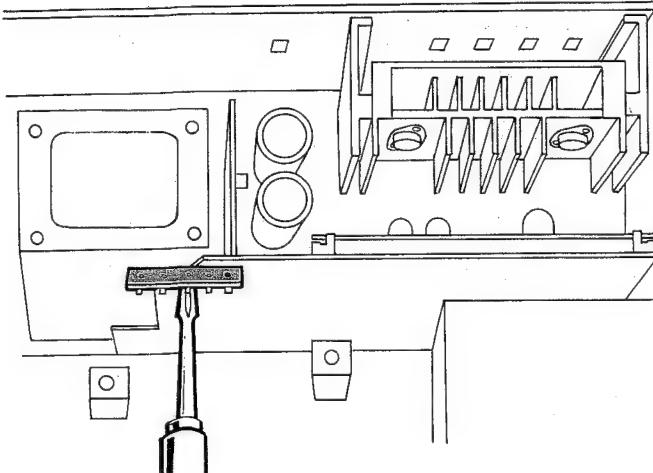
Note: 1. Tapping screw holds the transistor socket. Don't remove it without necessity.
2. Before fix the transistor, in the case of replacing transistor socket, do the transistor socket.



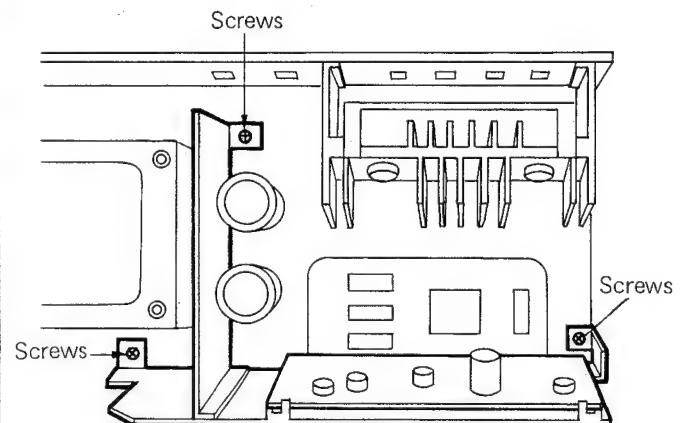
▼ DIAL CORD STRINGING



HOW TO REPAIR FINAL STAGE (RIGHT CHANNEL)

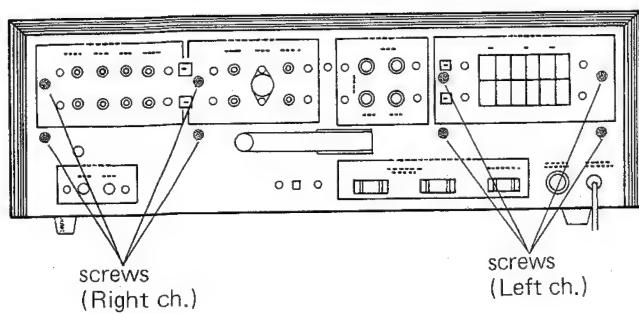


▲ Remove the lug connecting dial pointer.

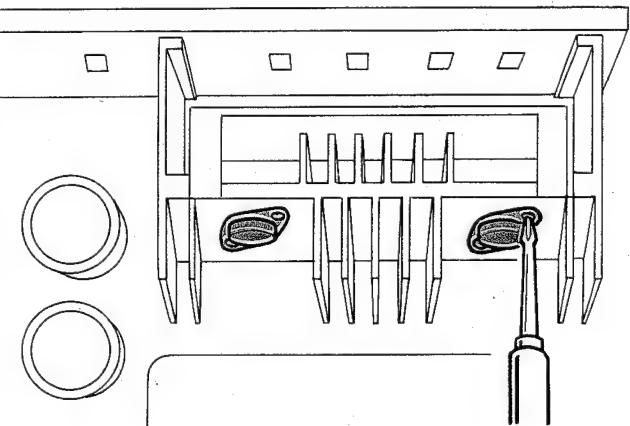


▲ Remove the shield plate.

1 → 2
↓
4 ← 3

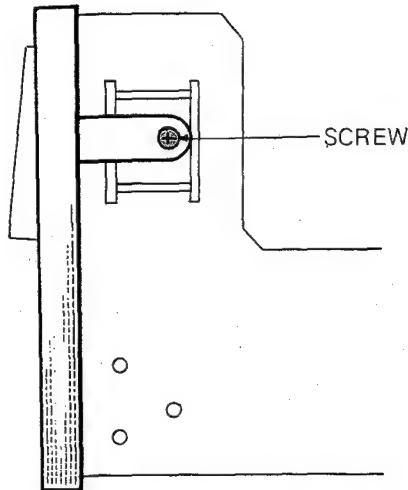


▲ If you want to remove a heat sink, unscrew screws on rear panel.

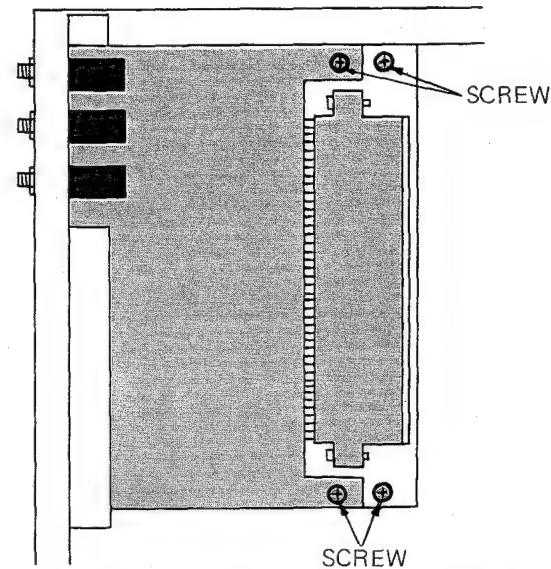


▲ Adjust power transistors.

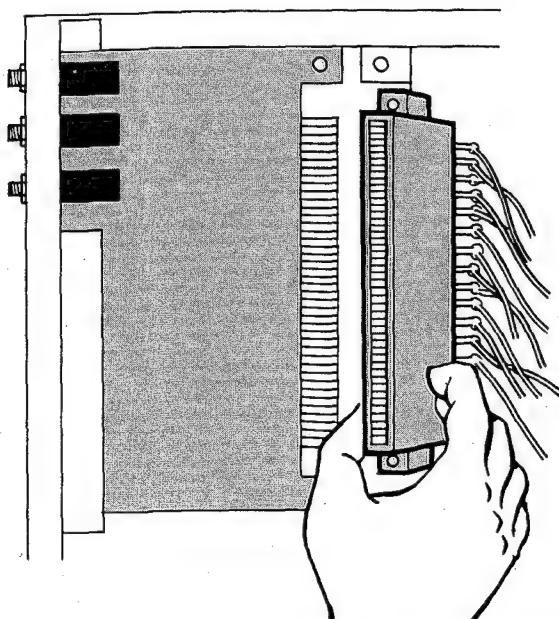
HOW TO REPLACE PUSHBUTTON PC BOARD



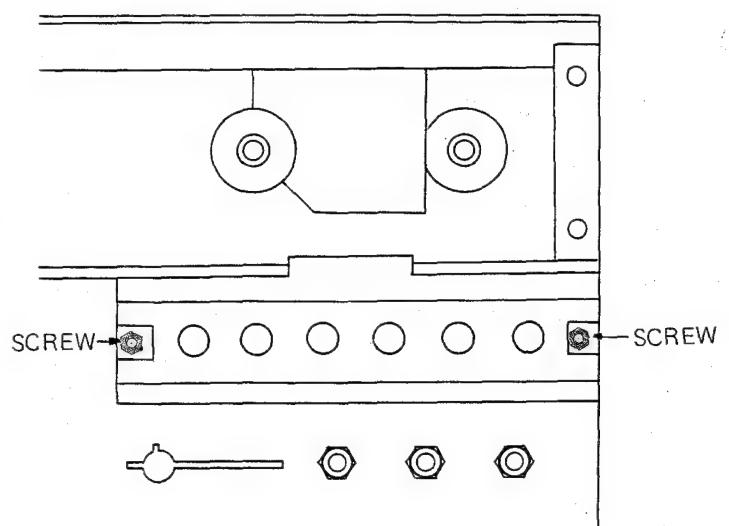
▲ Remove the case and the screw setting right side of front panel — front panel fixed by nuts of potentiometer and rotary switches.



▲ Remove screws fixing pc board and pc board connector.



▲ First pull out the pc board from connector and next do out pc board.

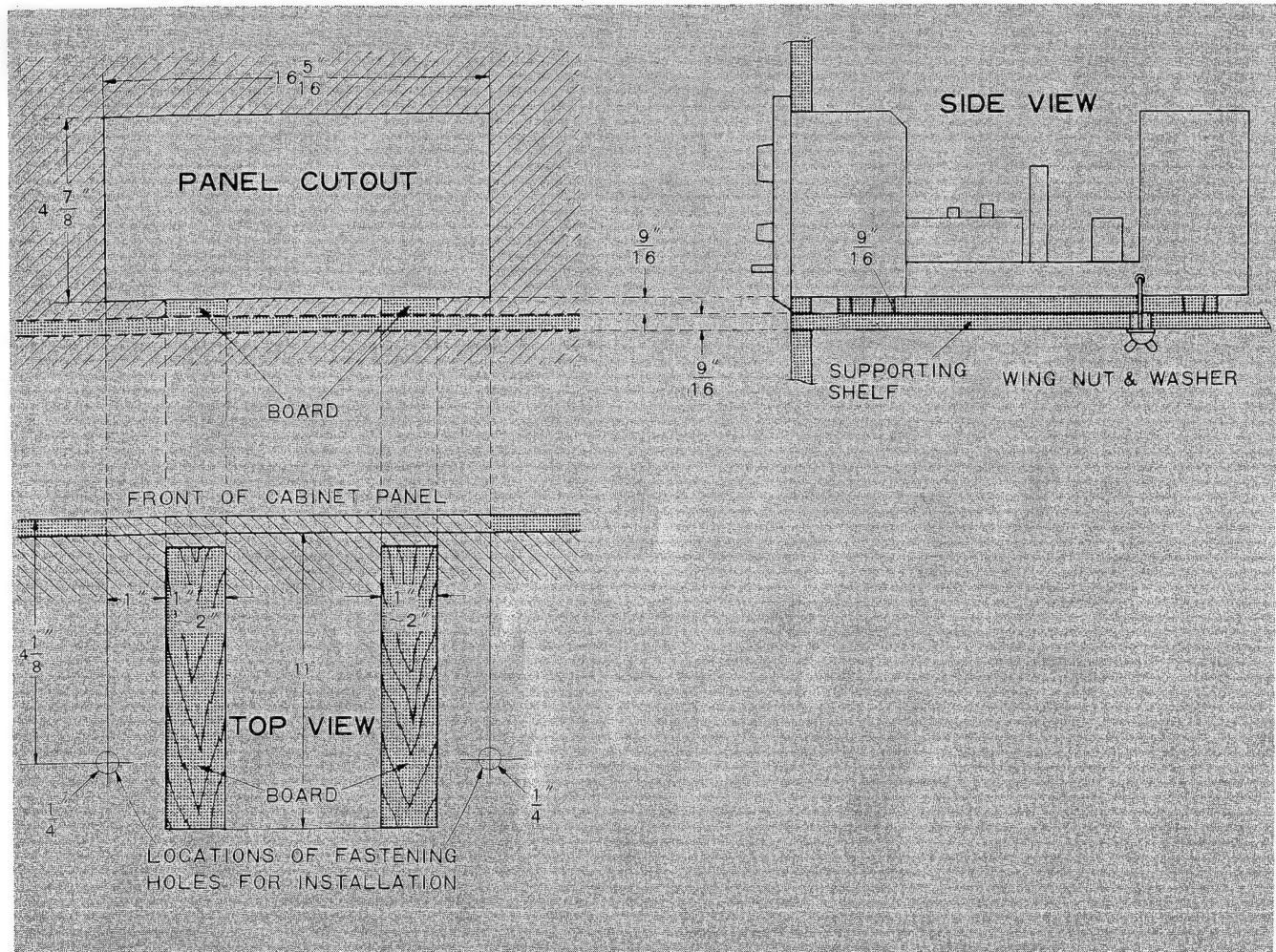


▲ Remove screws fixing pc board on front chassis.

HOW TO MOUNT THE SET

DIRECTIONS FOR PANEL MOUNTING

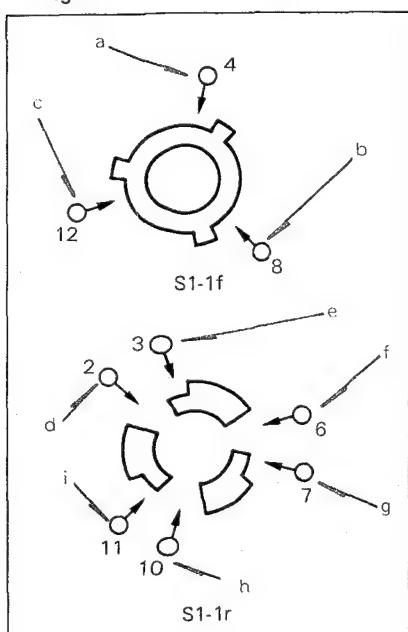
1. Remove the walnut cabinet.
2. Locate the supporting shelf at the height you wish the receiver positioned.
3. Remove the four bottom legs.
4. An air space must be made between the bottom of the set and the supporting shelf to assure good ventilation and cool operation. This space can be made by placing two boards which measure $9/16''$ thick by $1''$ to $2''$ width between chassis and the supporting shelf.
5. Make panel cutout in the size shown at left $4-7/8''$ x $16-5/16''$. The bottom of the cutout should be flush with the bottom plate of the receiver, as shown in the side view. The distance between the bottom of the cutout and the top of the supporting shelf is $9/16''$.
6. The receiver is held in place by two bolts. The holes must be made in the shelf to correspond with the holes in the receiver. Use the "Top View" to locate these holes on the supporting shelf. The holes should be made $1/4''$ in diameter or somewhat larger.



HOW TO UNDERSTAND ROTARY SWITCH

- See Fig. 1, for an example.
- S1 means one of rotary switches, number 1 SELECTOR switch.
- Namely, 2 means the 2nd wafer, and 3 means the 3rd wafer. Others are like so. (Fig. 2)
- The numbering of contact points are as shown in Fig. 3

Fig. 1



◎ means connection of the same contact point of rear and front wafer.

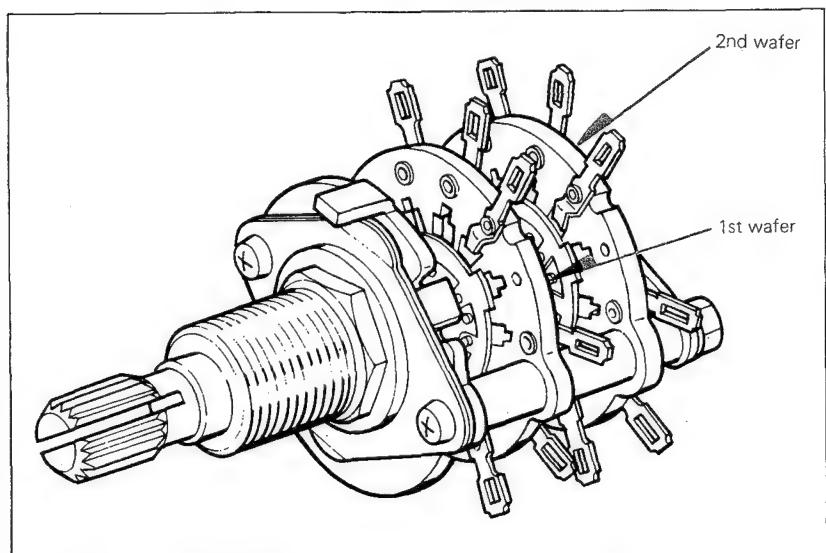


Fig. 2

Fig. 3

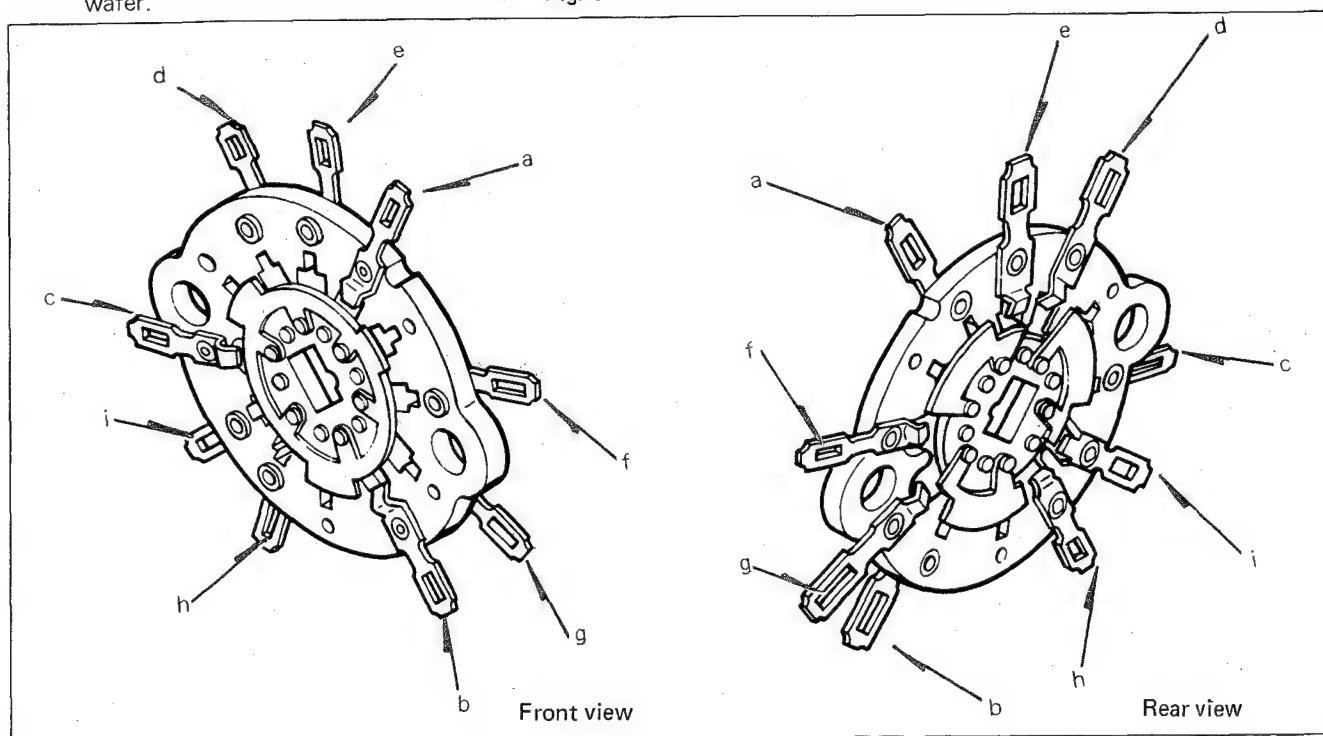
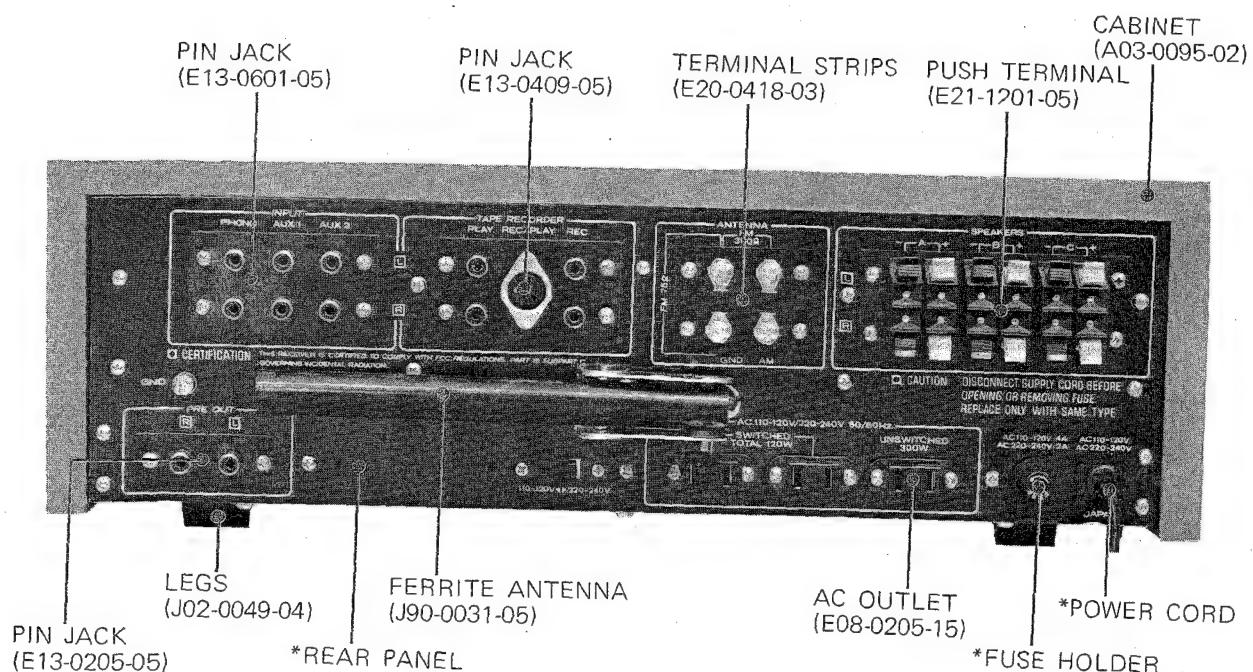
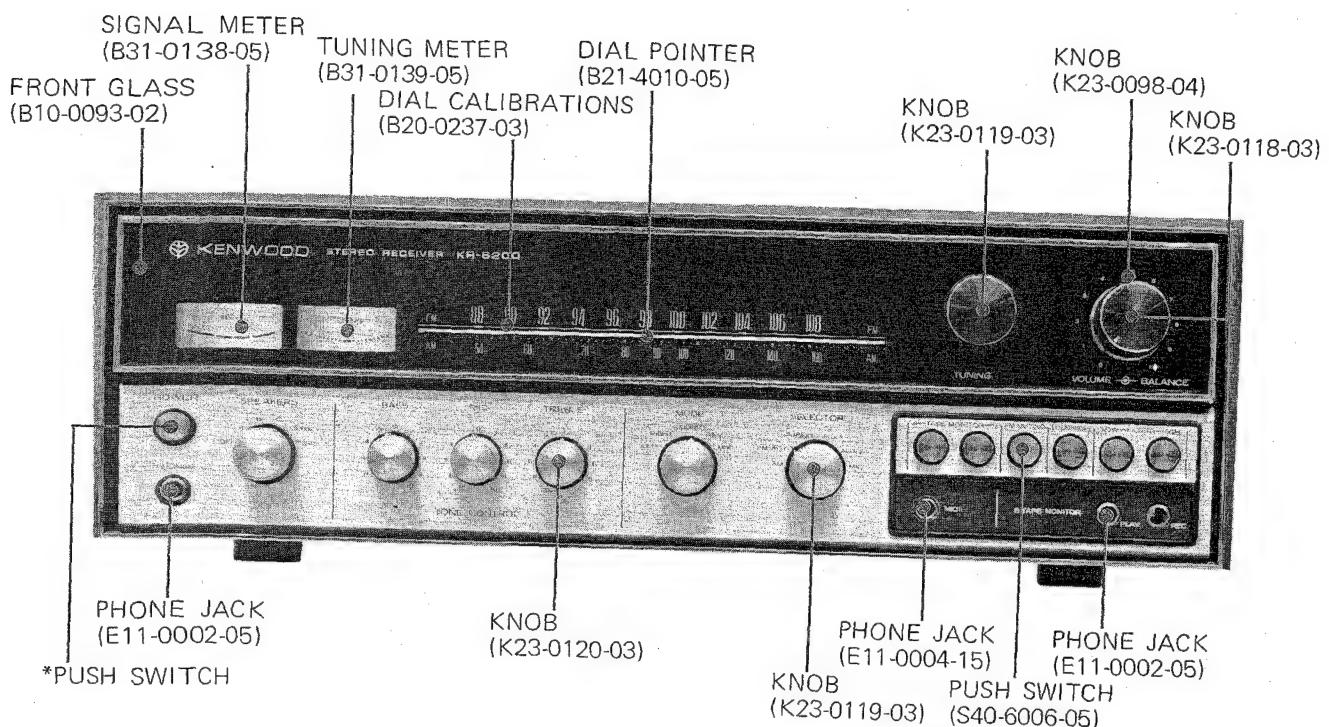


TABLE OF TRANSISTOR ABSOLUTE MAX. RATINGS

| Transistor's name | VCBO | VCEO | VEBO | IC | IE | PC | TJ | hFE | Type |
|-------------------|------|------|------|--------|--------|-------|-------|------------|------|
| 2SA620WL | -60V | -50V | -5V | -50mA | 50mA | 200mW | 125°C | 90 ~ 500 | Si |
| 2SA673A | -55V | -55V | -4V | -0.5A | 0.5A | 0.4W | 125°C | 60 ~ 200 | Si |
| 2SA733 | -50V | -40V | -5V | -100mA | - | 250mW | 125°C | 90 ~ 270 | Si |
| 2SC381 | 40V | 30V | 4V | 20mA | -20mA | 100mW | 125°C | 40 ~ 80 | Si |
| 2SC458 | 30V | 30V | 5V | 100mA | - | 200mW | 125°C | 60 ~ 500 | Si |
| 2SC785R | 40V | 30V | 4V | 20mA | -20mA | 100mW | 125°C | 40 ~ 80 | Si |
| 2SC941 | 35V | 30V | 4V | 20mA | -20mA | 200mW | 125°C | 40 ~ 140 | Si |
| 2SC945 | 50V | 40V | 5V | 100mA | - | 250mW | 125°C | 90 ~ 270 | Si |
| 2SC983 | 250V | 150V | 5V | 50mA | -50mA | 600mW | 150°C | 70 ~ 240 | Si |
| 2SC1161 | 200V | 120V | 6V | 1A | - | 15W | 150°C | 30 ~ 200 | Si |
| 2SC1213A | 55V | 55V | 4V | 500mA | -500mA | 400mW | 125°C | 60 ~ 200 | Si |
| 2SC1345 | 55V | 50V | 5V | 100mA | -100mA | 200mW | 125°C | 400 ~ 1200 | Si |
| 2SC1416A | 55V | 50V | 5V | 50mA | -50mA | 200mW | 150°C | 200 ~ 700 | Si |
| 2SD220 | 80V | 50V | 7V | 1A | -1A | 500mW | - | 70 ~ 400 | Si |

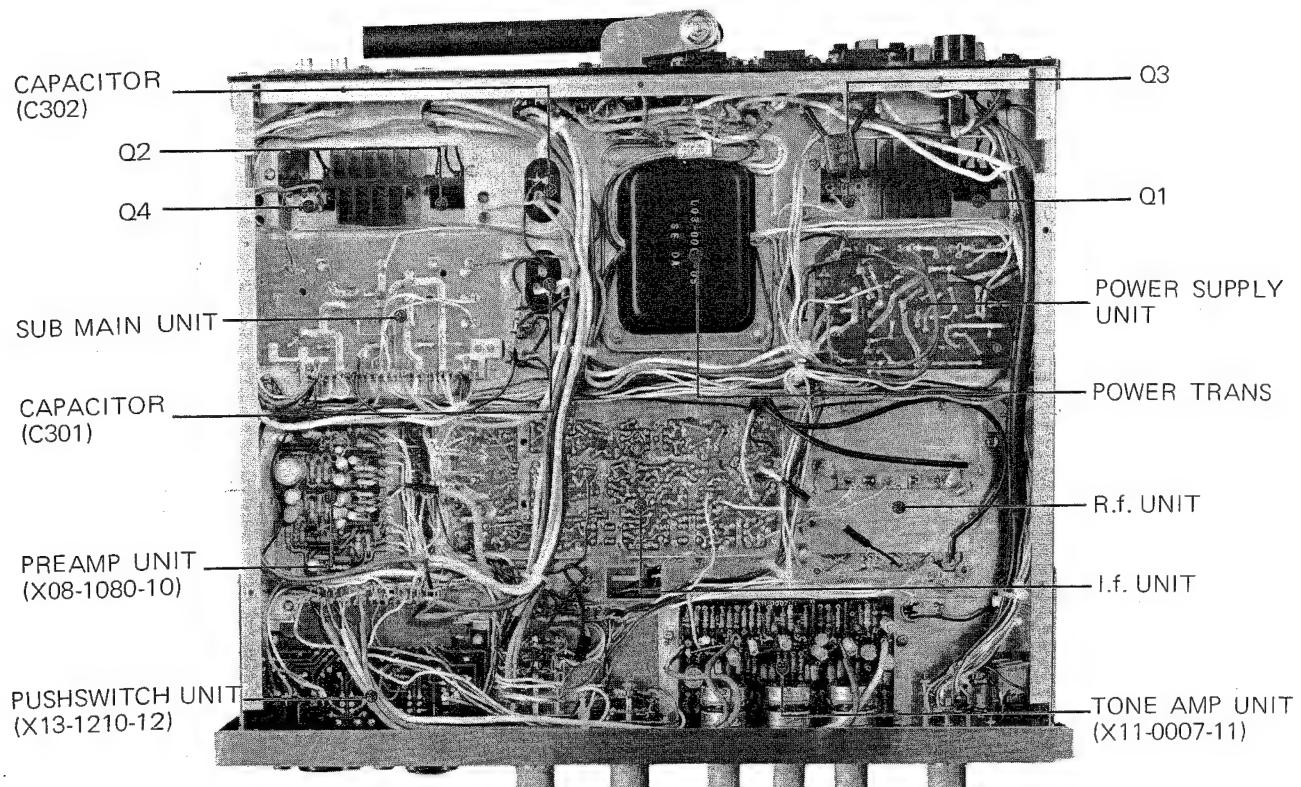
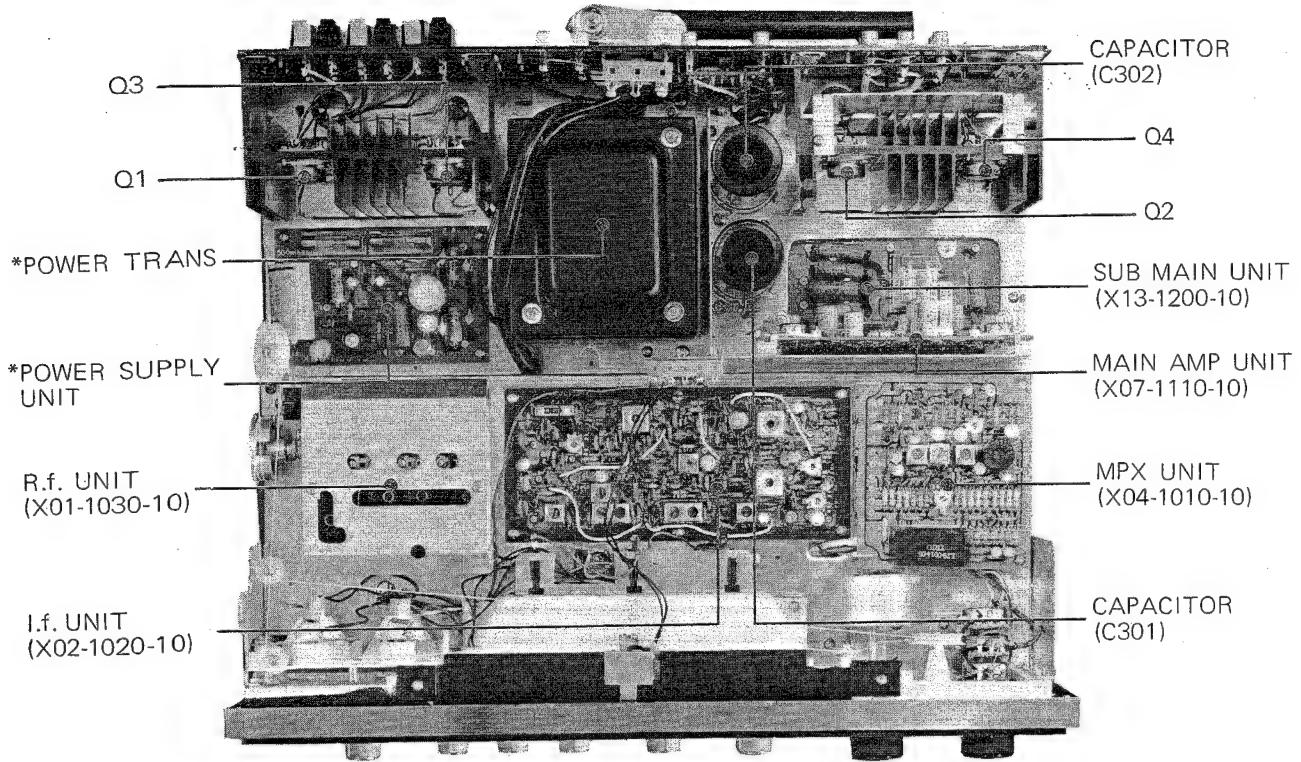
| | |
|-------------------------------------|-------------------------------------|
| VCBO : Collector to base voltage | IE : Emitter current |
| VCEO : Collector to emitter voltage | PC : Maximum power disposition |
| VEBO : Emitter to base voltage | TJ : Operating junction temperature |
| IC : Collector current | Si : Silicon transistor |

EXTERNAL VIEW



*See the parts list.

TOP & BOTTOM CHASSIS VIEW



*See the parts list.

PARTS LIST

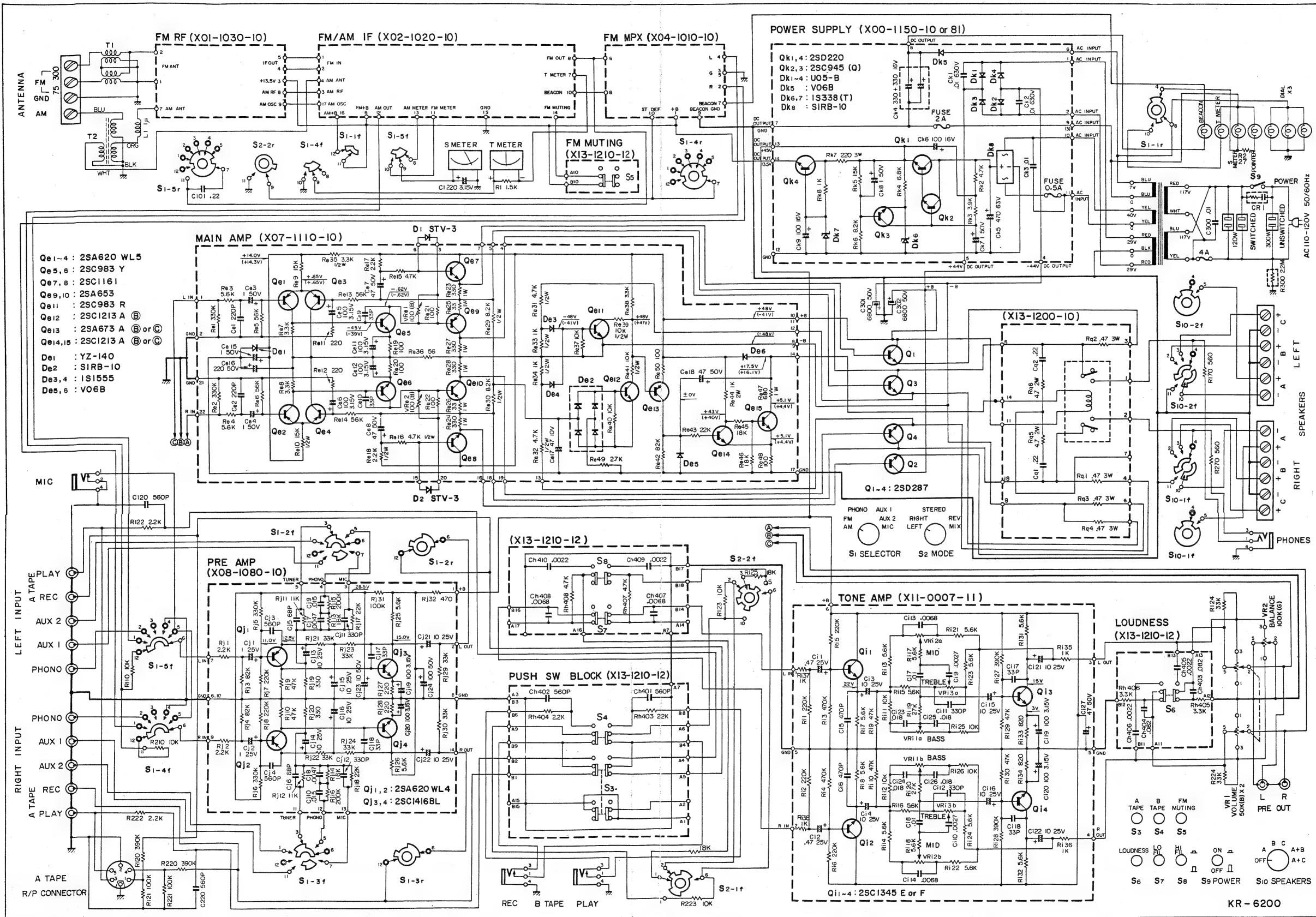
| Ref. No. | Parts No. | Description | | | | Remarks |
|----------------------|--------------|-------------------|-------------------------------|-----------|------|---------|
| CAPACITOR | | | | | | |
| C1 | CE04W0F221 | Electrolytic | 220 μ F | 3.15WV | | |
| C101 | CQ93M1H224M | Mylar | 0.22 μ F | \pm 20% | | |
| C120 | CK45D1H561M | Ceramic | 560pF | \pm 20% | | |
| C220 | CK45D1H561M | Ceramic | 560pF | \pm 20% | | |
| C300 | C90-0029-05 | Oil filled | 0.01 μ F | +100% | -0% | |
| C301, 302 | C90-0129-05 | Electrolytic | 6800 μ F | 50WV | | |
| RESISTOR | | | | | | |
| R1 | PD14BY2E152J | Carbon | 1.5k Ω | \pm 5% | 1/4W | |
| R2 | RC05GF2H270K | Carbon | 27 Ω | \pm 10% | 1/2W | |
| R110 | PD14BY2E103J | Carbon | 10k Ω | \pm 5% | 1/4W | |
| R120 | PD14BY2E394J | Carbon | 390k Ω | \pm 5% | 1/4W | |
| R121 | PD14BY2E104J | Carbon | 100k Ω | \pm 5% | 1/4W | |
| R122 | PD14BY2E222J | Carbon | 2.2k Ω | \pm 5% | 1/4W | |
| R123 | PD14BY2E103J | Carbon | 10k Ω | \pm 5% | 1/4W | |
| R124 | PD14BY2E333J | Carbon | 33k Ω | \pm 5% | 1/4W | |
| R125 | PD14BY2E183J | Carbon | 18k Ω | \pm 5% | 1/4W | |
| R170 | RC05GF2H561K | Carbon | 560 Ω | \pm 10% | 1/2W | |
| R210 | PD14BY2E103J | Carbon | 10k Ω | \pm 5% | 1/4W | |
| R220 | PD14BY2E394J | Carbon | 390k Ω | \pm 5% | 1/4W | |
| R221 | PD14BY2E104J | Carbon | 100k Ω | \pm 5% | 1/4W | |
| R222 | PD14BY2E222J | Carbon | 2.2k Ω | \pm 5% | 1/4W | |
| R223 | PD14BY2E103J | Carbon | 10k Ω | \pm 5% | 1/4W | |
| R224 | PD14BY2E333J | Carbon | 33k Ω | \pm 5% | 1/4W | |
| R225 | PD14BY2E183J | Carbon | 18k Ω | \pm 5% | 1/4W | |
| R270 | RC05GF2H561K | Carbon | 560 Ω | \pm 10% | 1/2W | |
| R300 | RC05GF2H225K | Carbon | 2.2M Ω | \pm 10% | 1/2W | |
| SEMICONDUCTOR | | | | | | |
| Q1 ~ 5 | | 2SD287 | | | | |
| D1, 2 | | STV-3 | | | | |
| SWITCH | | | | | | |
| S1 | S04-5014-05 | Rotary (SELECTOR) | | | | |
| S2 | S04-2043-05 | Rotary (MODE) | | | | |
| S10 | S04-2036-05 | Rotary (SPEAKERS) | | | | |
| POTENTIOMETER | | | | | | |
| VR1 | R11-9003-05 | Potentiometer | 50k Ω (B) three gangs | VOLUME | | |
| VR2 | R11-9003-05 | Potentiometer | 100k Ω (W) three gangs | BALANCE | | |
| MISCELLANEOUS | | | | | | |
| — | A03-0095-02 | Cabinet | | | | |
| — | A10-0313-11 | Chassis | | | | |
| — | A15-0018-02 | Frame | | | | |
| — | A15-0019-13 | Frame assembly | | | | |
| — | A20-0518-05 | Panel | | | | |
| — | A20-0520-03 | Panel assembly | | | | |
| — | A21-0096-02 | Ornamental plate | | | | |
| — | A30-0066-05 | Dial board | | | | |
| — | A40-0097-03 | Bottom plate | | | | |
| — | B07-0084-04 | Black spacer | | | | |

| Ref. No. | Parts No. | Description | Remarks |
|----------|-------------|--|---------|
| — | B10-0093-02 | Front glass | |
| — | B20-0237-03 | Dial calibrations | |
| — | B21-4010-05 | Dial pointer | |
| PL | B30-0060-05 | Pilot lamp (300mA) x 3 | |
| PL | B30-0064-05 | Pilot lamp (50mA, stereo indicator) | |
| — | B30-0067-05 | Meter pilot lamp (8V, 150mA) x 2 | |
| — | B31-0137-05 | Meter assembly | |
| — | B31-0138-05 | Signal meter | |
| — | B31-0139-05 | Tuning meter | |
| — | B42-0009-04 | Passed sticker | |
| — | B42-0352-14 | Name plate (C) | |
| — | B42-0353-14 | Name plate (A) | |
| — | B52-0133-00 | Schematic diagram | |
| — | D01-0009-05 | Flywheel | |
| — | D15-0073-14 | Middle size pulley x 2 | |
| — | D15-0075-04 | Small size pulley x 3 | |
| — | D15-0104-04 | Pulley | |
| — | D20-0092-05 | Dial shaft | |
| — | E02-0207-05 | Transistor socket x 4 | |
| — | E08-0205-15 | AC outlet x 3 | |
| — | E10-2205-05 | 22P PC board connector | |
| — | E10-3601-05 | 36P PC board connector | |
| — | E11-0002-05 | Phone jack (TAPE-REC, PLAY, PHONE) x 3 | |
| — | E11-0002-05 | Phone jack (MIC) | |
| — | E13-0205-05 | 2P pin jack | |
| — | E13-0409-05 | 4P pin jack with DIN | |
| — | E13-0601-05 | 6P pin jack | |
| — | E15-0038-05 | Pilot lamp socket | |
| — | E20-0418-03 | 4P terminal strips | |
| — | E21-1201-05 | 12P push terminal | |
| — | F01-0119-13 | Heat sink x 2 | |
| — | F07-0264-14 | Dial cover | |
| — | F10-0273-13 | MAIN unit shield plate | |
| — | F10-0274-04 | INPUT shield plate | |
| — | G01-0045-04 | Dial spring | |
| — | H01-0805-04 | Carton case | |
| — | J02-0049-14 | Leg x 4 | |
| — | J19-0010-04 | Varistor stopper x 2 | |
| — | J19-0029-14 | Front glass stopper x 2 | |
| — | J19-0249-04 | Meter stopper | |
| — | J19-0250-14 | Dial stopper | |
| — | J19-0251-14 | Left side board | |
| — | J19-0252-34 | Right side board | |
| — | J19-0266-04 | Upper front glass stopper | |
| — | J19-0267-04 | Lower front glass stopper x 3 | |
| — | J21-0192-04 | Amp stopper | |

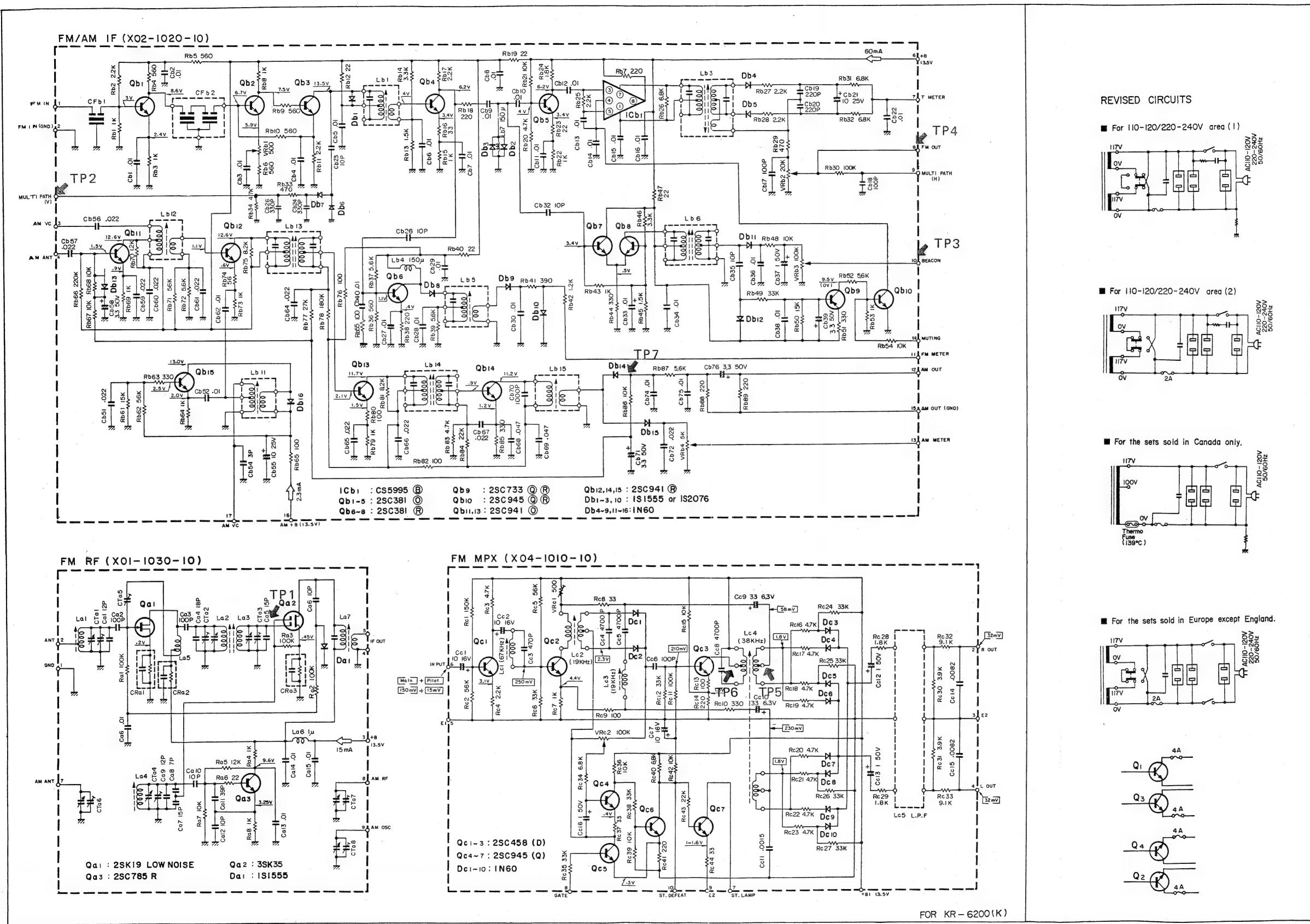
| Ref. No. | Part No. | Description | Remarks |
|--|-------------|--|---------|
| — | J21-0973-14 | Pushbutton switch mounting hardware | |
| — | J21-0975-04 | Shield plate mounting hardware | |
| — | J21-0976-14 | L shape mounting hardware | |
| — | J21-0977-04 | Switch mounting hardware | |
| — | J21-0989-14 | Pilot lamp mounting hardware | |
| — | J21-1001-04 | Frame mounting hardware | |
| — | J21-1011-04 | Panel mounting hardware | |
| — | J25-0768-04 | DIN PC board | |
| — | K23-0098-04 | Knob (BALANCE) | |
| — | K23-0117-03 | Knob (TUNING) | |
| — | K23-0118-03 | Knob (VOLUME) | |
| — | K23-0119-03 | Knob (SPEAKERS, MODE, SELECTOR) | |
| — | K23-0120-03 | Knob (TONE) x 3 | |
| — | K29-0115-04 | Knob (POWER) | |
| — | K29-0117-04 | Knob (push button) x 6 | |
| T1 | L19-0009-05 | Balun transformer | |
| L1 | L33-0025-05 | Choke coil (1μH) | |
| — | T90-0002-05 | FM indoor antenna | |
| T2 | T90-0031-05 | Ferrite antenna | |
| — | X01-1030-10 | FM-RF unit | |
| — | X02-1020-10 | IF unit | |
| — | X04-1010-10 | MPX unit | |
| — | X07-1110-10 | MAIN AMP. unit | |
| — | X08-1080-10 | PRE AMP. unit | |
| — | X11-0007-11 | TONE AMP. sub unit | |
| — | X13-1210-12 | Pushbutton unit | |
| In North America add to the following parts. | | | |
| — | A23-0286-02 | Rear panel | |
| — | B40-0631-04 | Model name plate — only Canada | |
| — | B40-0640-04 | Model name plate — only U.S.A. | |
| — | B42-0359-04 | UL caution sticker x 2 | |
| — | B46-0002-00 | Warranty card (light blue) — only U.S.A. | |
| — | B46-0021-00 | Warranty card (light blue) — only Canada | |
| — | B50-0831-00 | Instruction manual | |
| — | B58-0043-00 | Carton case caution card | |
| — | E30-0046-05 | Power cord | UL |
| — | F05-4021-05 | Fuse (4A) — only U.S.A. | UL |
| — | F05-4022-05 | Fuse (4A) — only Canada | UL |
| — | H03-0138-04 | Carton case | UL |
| — | J13-0016-15 | Fuse holder | UL |
| — | J20-0227-14 | AC outlet mounting hardware | UL |
| — | L03-0068-15 | Power transformer — only U.S.A. | |
| — | L05-0011-15 | Power transformer — only Canada | |

| Ref. No | Parts No. | Description | Remarks |
|---------|---------------|---------------------------------------|---------|
| CR1 | R90-0097-05 | Spark killer — only U.S.A. | |
| S9 | S39-2002-05 | Pushbutton switch (POWER) | |
| — | X00-1150-10 | Power supply unit | |
| — | In other area | | |
| — | A23-0287-02 | Rear panel | |
| — | B40-0641-04 | Model name plate | |
| — | B46-0022-00 | Warranty card (yellow) | |
| — | B46-0023-00 | Warranty card (yellow) | |
| — | B50-0832-00 | Instruction manual | |
| — | B58-0139-00 | Power supply caution card | |
| — | B58-0144-00 | Power voltage selector caution card | |
| — | B58-0146-00 | Spare fuse caution card | |
| — | B59-0018-00 | KENWOOD service stations' list | |
| — | D32-0021-04 | Switch stopper | |
| — | E30-0034-05 | Power cord | |
| — | F05-2023-05 | Fuse (2A) | |
| — | F05-4022-05 | Fuse (4A) | |
| — | J13-0033-05 | Fuse holder | |
| — | L03-0067-15 | Power transformer | |
| CR1 | R90-0097-05 | Spark killer | |
| — | S31-2001-05 | Slide switch (power voltage selector) | SEV |
| S9 | S39-2003-05 | Pushbutton switch (POWER) | SEV |
| — | X00-1150-81 | Power supply unit | |

SCHEMATIC DIAGRAM (1)



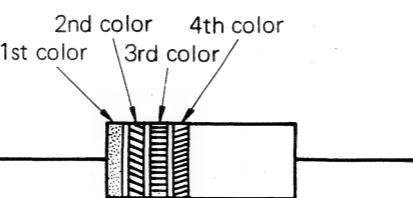
SCHEMATIC DIAGRAM (2)



COLOR CODE

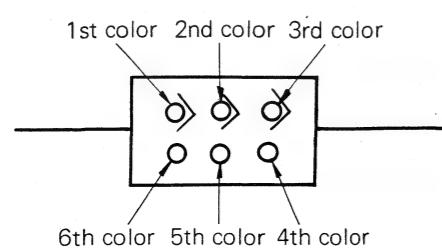
RESISTOR

| COLOR (meaning) | 1st (value) | 2nd (value) | 3rd (multiplier) | 4th (tolerance) |
|-----------------|-------------|-------------|------------------|-----------------|
| Black | 0 | 0 | 10^0 | — |
| Brown | 1 | 1 | 10^1 | $\pm 1\%$ |
| Red | 2 | 2 | 10^2 | $\pm 2\%$ |
| Orange | 3 | 3 | 10^3 | — |
| Yellow | 4 | 4 | 10^4 | — |
| Green | 5 | 5 | 10^5 | — |
| Blue | 6 | 6 | 10^6 | — |
| Purple | 7 | 7 | 10^7 | — |
| Grey | 8 | 8 | 10^8 | — |
| White | 9 | 9 | 10^9 | — |
| Gold | — | — | 10^{-1} | $\pm 5\%$ |
| Silver | — | — | 10^{-2} | $\pm 10\%$ |
| Non-color | — | — | — | $\pm 20\%$ |



CAPACITOR (MICA)

| COLOR (meaning) | 1st (grade) | 2nd (value) | 3rd (value) | 4th (multiplier) | 5th (tolerance) | 6th (characteristic) |
|-----------------|-------------|-------------|-------------|------------------|-----------------|----------------------|
| Black | X | 0 | 0 | 10^0 | $\pm 20\%$ | — |
| Brown | — | 1 | 1 | 10^1 | $\pm 1\%$ | B |
| Red | Z | 2 | 2 | 10^2 | $\pm 2\%$ | C |
| Orange | — | 3 | 3 | 10^3 | — | D |
| Yellow | — | 4 | 4 | 10^4 | — | E |
| Green | — | 5 | 5 | — | * $\pm 5\%$ | — |
| Blue | — | 6 | 6 | — | — | — |
| Purple | — | 7 | 7 | — | — | — |
| Grey | Y | 8 | 8 | — | — | — |
| White | — | 9 | 9 | 0.1 | $\pm 10\%$ | — |



Unit = pF
* Capacitance being less than 10pF is $\pm 0.5\%$ on tolerance.



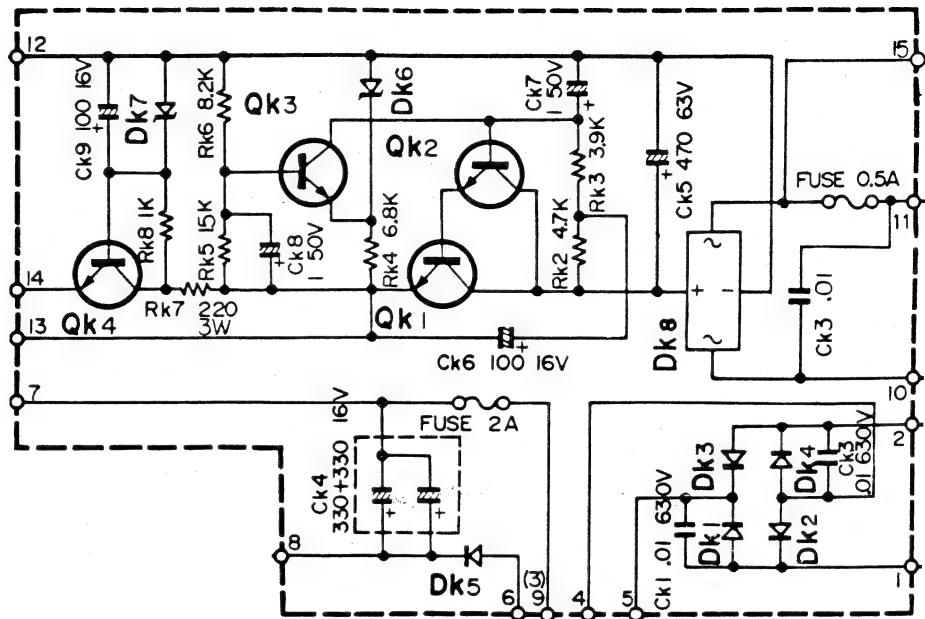
Manufactured by TRIO ELECTRONICS INC., TOKYO, JAPAN.

KENWOOD® POWER SUPPLY (X00-1150-81) SECTION

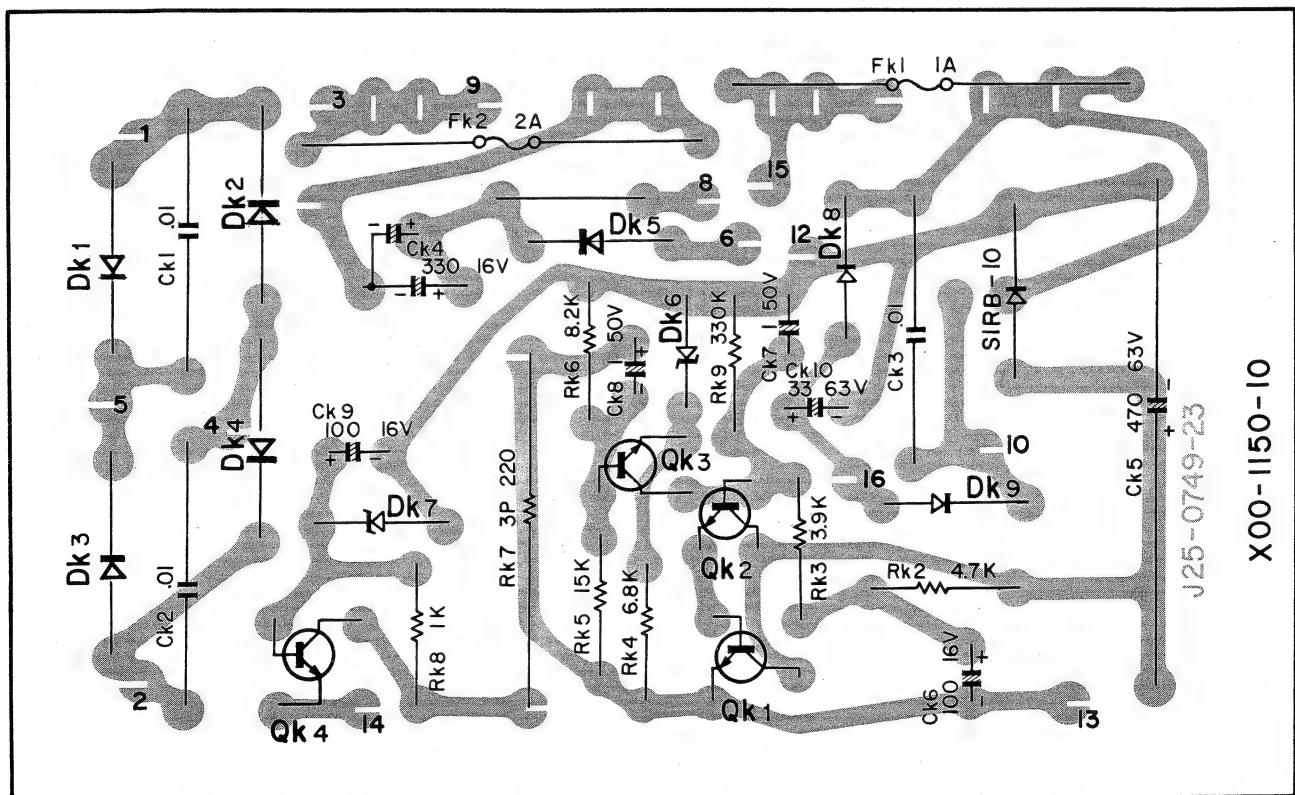
(KR-7200) (KR-6200)

SCHEMATIC DIAGRAM

BOTTOM VIEW
OF
TRANSISTORS



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qk 1, 4: 2SD220, Qk2, 3: 2SC945 (Q), Dk1 ~ 4: U05B, Dk5: V0-6B, Dk6, 7: 1S338 (T), Dk8: S1RB10


KENWOOD® POWER SUPPLY(X00-1150-81) SECTION
PARTS DESCRIPTION LIST

| Ref. No. | Parts No. | Description | | | | Remarks |
|----------------------|--------------|-----------------|-----------------|------------|------|---------|
| CAPACITOR | | | | | | |
| Ck1 ~ 3 | CP02B2J103M | Oil filled | 0.01 μ F | $\pm 20\%$ | | |
| Ck4 | CE04W1C331X2 | Electrolytic | 330 μ F x 2 | 16WV | | |
| Ck5 | CE02W1J471 | Electrolytic | 470 μ F | 63WV | | |
| Ck6 | CE04W1C101 | Electrolytic | 100 μ F | 16WV | | |
| Ck7, 8 | CE04W1H010 | Electrolytic | 1 μ F | 50WV | | |
| Ck9 | CE04W1C101 | Electrolytic | 100 μ F | 16WV | | |
| RESISTOR | | | | | | |
| Rk2 | PD14BY2E472J | Carbon | 4.7k Ω | $\pm 5\%$ | 1/4W | |
| Rk3 | PD14BY2E392J | Carbon | 3.9k Ω | $\pm 5\%$ | 1/4W | |
| Rk4 | PD14BY2E682J | Carbon | 6.8k Ω | $\pm 5\%$ | 1/4W | |
| Rk5 | PD14BY2E153J | Carbon | 15k Ω | $\pm 5\%$ | 1/4W | |
| Rk6 | PD14BY2E822J | Carbon | 8.2k Ω | $\pm 5\%$ | 1/4W | |
| Rk7 | RN14AB3F221J | Metal film | 220 Ω | $\pm 5\%$ | 3W | |
| Rk8 | PD14BY2E102J | Carbon | 1k Ω | $\pm 5\%$ | 1/4W | |
| SEMICONDUCTOR | | | | | | |
| Qk1 | | | 2SD220 | | | |
| Qk2, 3 | | | 2SC945 (Q) | | | |
| Qk4 | | | 2SD220 | | | |
| Dk1 ~ 4 | | | U05B | | | |
| Dk5 | | | V0-6B | | | |
| Dk6, 7 | | | 1S338 (T) | | | |
| Dk8 | | | S1RB-10 | | | |
| MISCELLANEOUS | | | | | | |
| — | F02-0004-05 | Heat sink | | | | |
| — | F02-0007-05 | Heat sink | | | | |
| — | F05-2023-05 | Fuse (2A) | | | | |
| — | F05-5013-05 | Fuse (0.5A) | | | | |
| — | J13-0023-05 | Fuse holder x 2 | | | | |



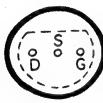
FM-RF (X01-1030-10) SECTION

(KR-6200) (KR-5200)

SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS

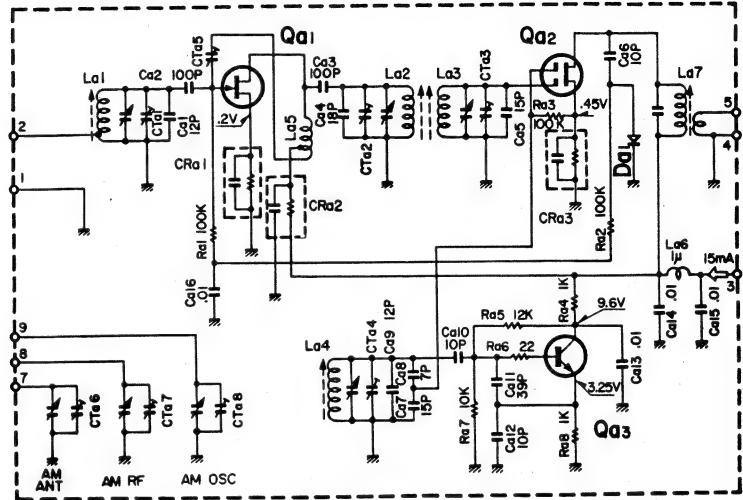
2SK19



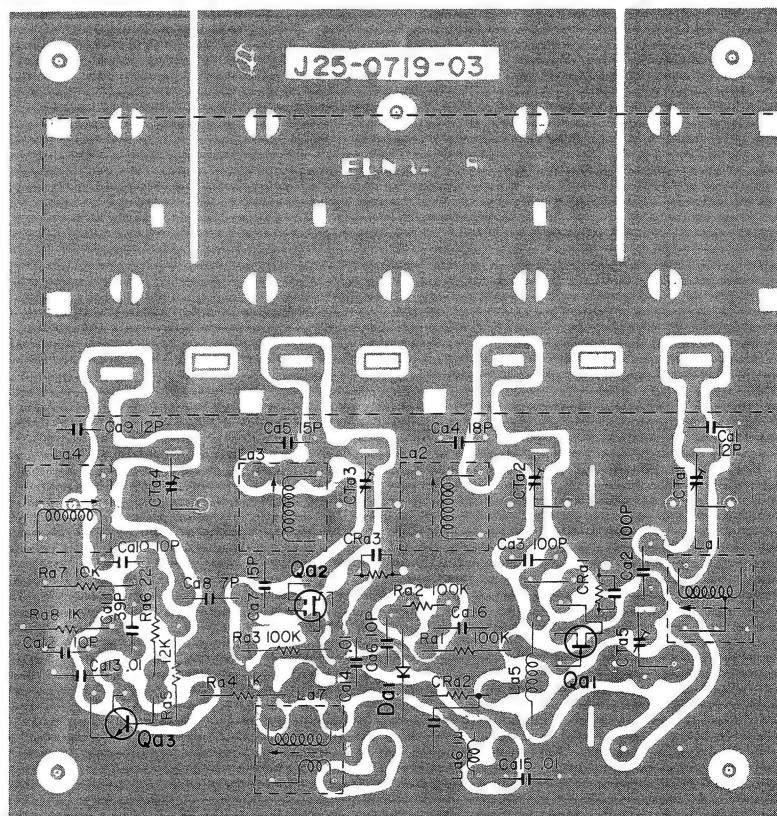
3SK35



2SC785R



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qa1: 2SK19 (Low noise), Qa2: 3SK35, Qa3: 2SC785R, Da1: 1S1555



FM-RF (X01-1030-10) SECTION

PARTS DESCRIPTION LIST

| Ref. No. | Parts No. | Description | | | | Remarks |
|---|--------------|---|--------|------------|------|---------|
| CAPACITOR | | | | | | |
| Ca1 | CC45SH1H120J | Ceramic | 12pF | ±5% | | |
| Ca2, 3 | CC45SL1H101K | Ceramic | 100pF | ±10% | | |
| Ca4 | CC45SH1H180J | Ceramic | 18pF | ±5% | | |
| Ca5 | CC45SH1H150J | Ceramic | 15pF | ±5% | | |
| Ca6 | CC45SL1H100J | Ceramic | 10pF | ±5% | | |
| Ca7 | CC45TH1H150J | Ceramic | 15pF | ±5% | | |
| Ca8 | CC45TH1H070C | Ceramic | 7pF | ±0.25pF | | |
| Ca9 | CC45SG1H120J | Ceramic | 12pF | ±5% | | |
| Ca10 | CC45SG1H100J | Ceramic | 10pF | ±5% | | |
| Ca11 | CC45SG1H390J | Ceramic | 39pF | ±5% | | |
| Ca12 | CC45SG1H100J | Ceramic | 10pF | ±5% | | |
| Ca13 ~ 16 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | | |
| RESISTOR | | | | | | |
| Ra1 ~ 3 | PD14BY2B104J | Carbon | 100kΩ | ±5% | 1/8W | |
| Ra4 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W | |
| Ra5 | PD14BY2B123J | Carbon | 12kΩ | ±5% | 1/8W | |
| Ra6 | PD14BY2B220J | Carbon | 22Ω | ±5% | 1/8W | |
| Ra7 | PD14BY2B103J | Carbon | 10kΩ | ±5% | 1/8W | |
| SEMICONDUCTOR | | | | | | |
| Qa1 | | 2SK19 (Low noise) 3SK35 2SC785R 1S1555 | | | | |
| TRANS./COIL | | | | | | |
| La1 | L34-0301-04 | FM-ANT Coil | | | | |
| La2 | L34-0397-05 | FM-RF1 Coil | | | | |
| La3 | L34-0398-05 | FM-RF2 Coil | | | | |
| La4 | L34-0399-05 | FM-OSC Coil | | | | |
| La5 | L33-0027-05 | Choke coil | | | | |
| La6 | L33-0086-05 | Choke coil | | | | |
| La7 | L30-0202-05 | FM-IFT | | | | |
| MULTIPLE COMPONENT | | | | | | |
| CRa1 | R90-0070-05 | Ceramic based multiple components (22Ω + 0.01μF) | | | | |
| CRa2 | R90-0071-05 | Ceramic based multiple components (220Ω + 0.01μF) | | | | |
| CRa3 | R90-0096-05 | Ceramic based multiple components (330Ω + 0.01μF) | | | | |
| MISCELLANEOUS | | | | | | |
| — — VC CTa1 ~ 5 — — — | A10-0304-03 | Front end chassis | | | | |
| | A40-0096-04 | Front end bottom plate | | | | |
| | C01-0170-05 | Variable capacitor | | | | |
| | C05-0009-15 | Ceramic trimmer | | | | |
| | F07-0251-03 | Front end cover | | | | |
| | F07-0261-04 | Front end chassis | | | | |
| | F10-0091-04 | Front end shield plate | | | | |



PRE AMP (X08-1080-10) SECTION

(KR-7200) (KR-6200) (KR-5200)

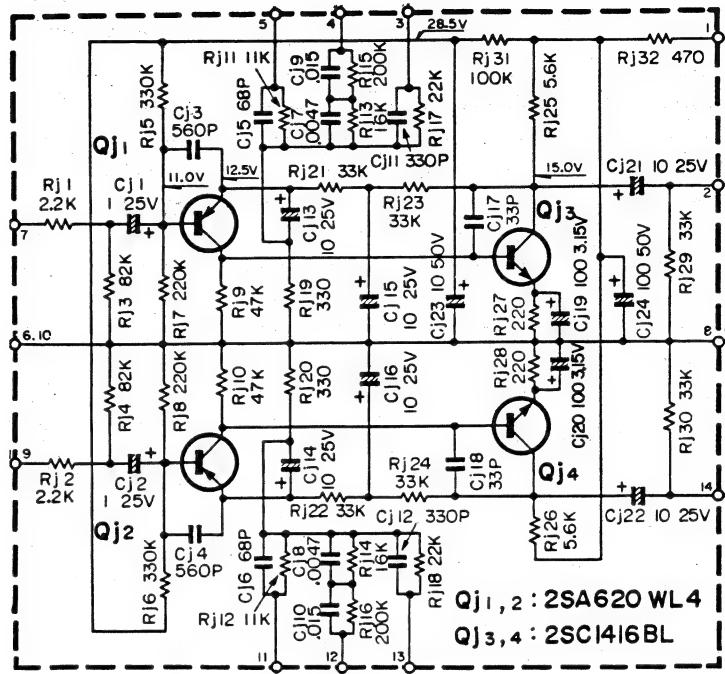
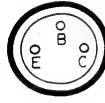
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS

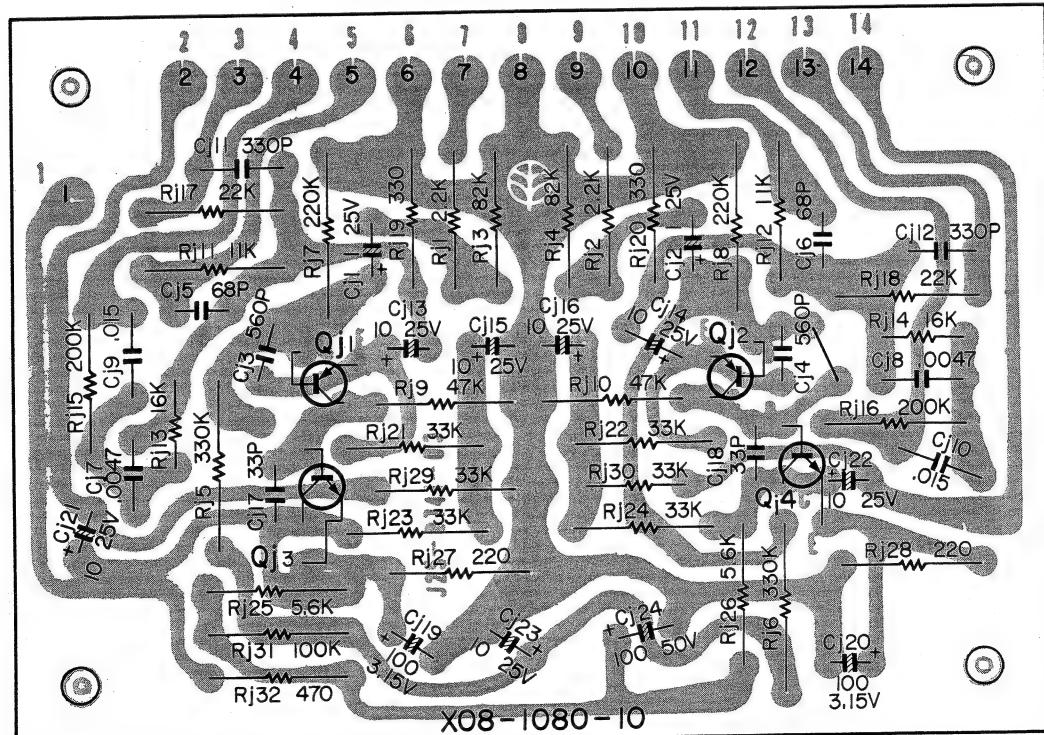
2SC620WL



2SC1416



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qj1, 2: 2SA620WL4, Qj3, 4: 2SC1416 BL

**KENWOOD®****PRE AMP (X08-1080-10) SECTION****PARTS DESCRIPTION LIST**

| Ref. No. | Parts No. | Description | | | | Remarks |
|----------------------|--------------|--------------|----------|--------|------|---------|
| CAPACITOR | | | | | | |
| Cj1, 2 | CS04E1E010M | Tantalum | 1μF | 25WV | | |
| Cj3, 4 | CK45D1H561M | Ceramic | 560pF | ±20% | | |
| Cj5, 6 | CC45SL1H680K | Ceramic | 68pF | ±10% | | |
| Cj7, 8 | CQ93M1H472J | Mylar | 0.0047μF | ±5% | | |
| Cj9, 10 | CQ93M1H153J | Mylar | 0.015μF | ±5% | | |
| Cj11, 12 | CK45D1H331M | Ceramic | 330pF | ±20% | | |
| Cj13 ~ 16 | CE04W1E100 | Electrolytic | 10μF | 25WV | | |
| Cj17, 18 | CC45SL1H330K | Ceramic | 33pF | ±10% | | |
| Cj19, 20 | CE04W0F101 | Electrolytic | 100μF | 3.15WV | | |
| Cj21, 22 | CE04W1E100 | Electrolytic | 10μF | 25WV | | |
| Cj23 | CE04W1H100 | Electrolytic | 10μF | 50WV | | |
| Cj24 | CE04W1H101 | Electrolytic | 100μF | 50WV | | |
| RESISTOR | | | | | | |
| Rj1, 2 | PD14BY2E222J | Carbon | 2.2kΩ | ±5% | 1/4W | |
| Rj3, 4 | PD14BY2E823J | Carbon | 82kΩ | ±5% | 1/4W | |
| Rj5, 6 | RN92A2H334J | Metal film | 330kΩ | ±5% | 1/2W | |
| Rj7, 8 | RN92A2H224J | Metal film | 220kΩ | ±5% | 1/2W | |
| Rj9, 10 | PD14BY2E473J | Carbon | 47kΩ | ±5% | 1/4W | |
| Rj11, 12 | PD14BY2E113J | Carbon | 11kΩ | ±5% | 1/4W | |
| Rj13, 14 | RN92A2E163G | Metal film | 16kΩ | ±1% | 1/4W | |
| Rj15, 16 | PD14BY2E204J | Carbon | 200kΩ | ±5% | 1/4W | |
| Rj17, 18 | PD14BY2E223J | Carbon | 22kΩ | ±5% | 1/4W | |
| Rj19, 20 | PD14BY2E331J | Carbon | 330Ω | ±5% | 1/4W | |
| Rj21 ~ 24 | PD14BY2E333J | Carbon | 33kΩ | ±5% | 1/4W | |
| Rj25, 26 | PD14BY2E562J | Carbon | 5.6kΩ | ±5% | 1/4W | |
| Rj27, 28 | PD14BY2E221J | Carbon | 220Ω | ±5% | 1/4W | |
| Rj29, 30 | PD14BY2E333J | Carbon | 33kΩ | ±5% | 1/4W | |
| Rj31 | PD14BY2E104J | Carbon | 100kΩ | ±5% | 1/4W | |
| Rj32 | PD14BY2E471J | Carbon | 470Ω | ±5% | 1/4W | |
| SEMICONDUCTOR | | | | | | |
| Qj1, 2 | | 2SA620WL4 | | | | |
| Qj3, 4 | | 2SC1416BL | | | | |



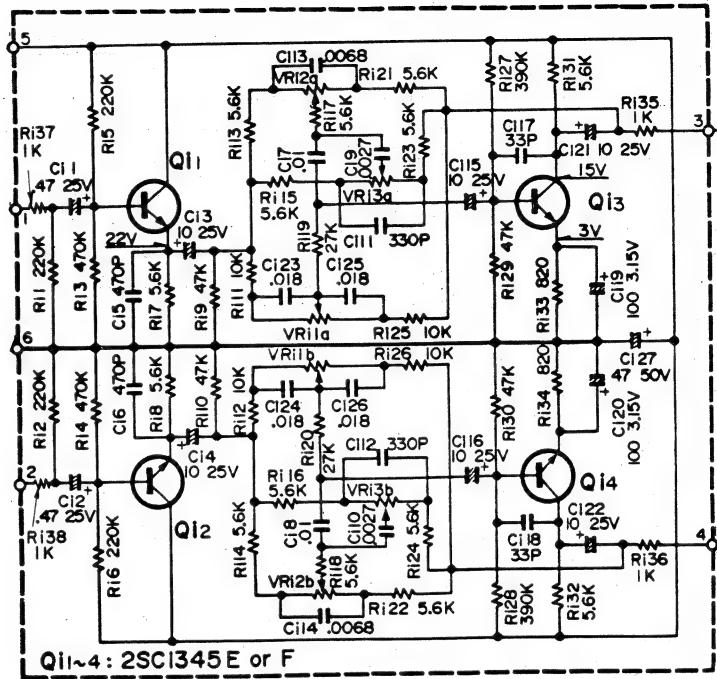
TONE AMP (X11-0007-11) SECTION

(KR-7200) (KR-6200)

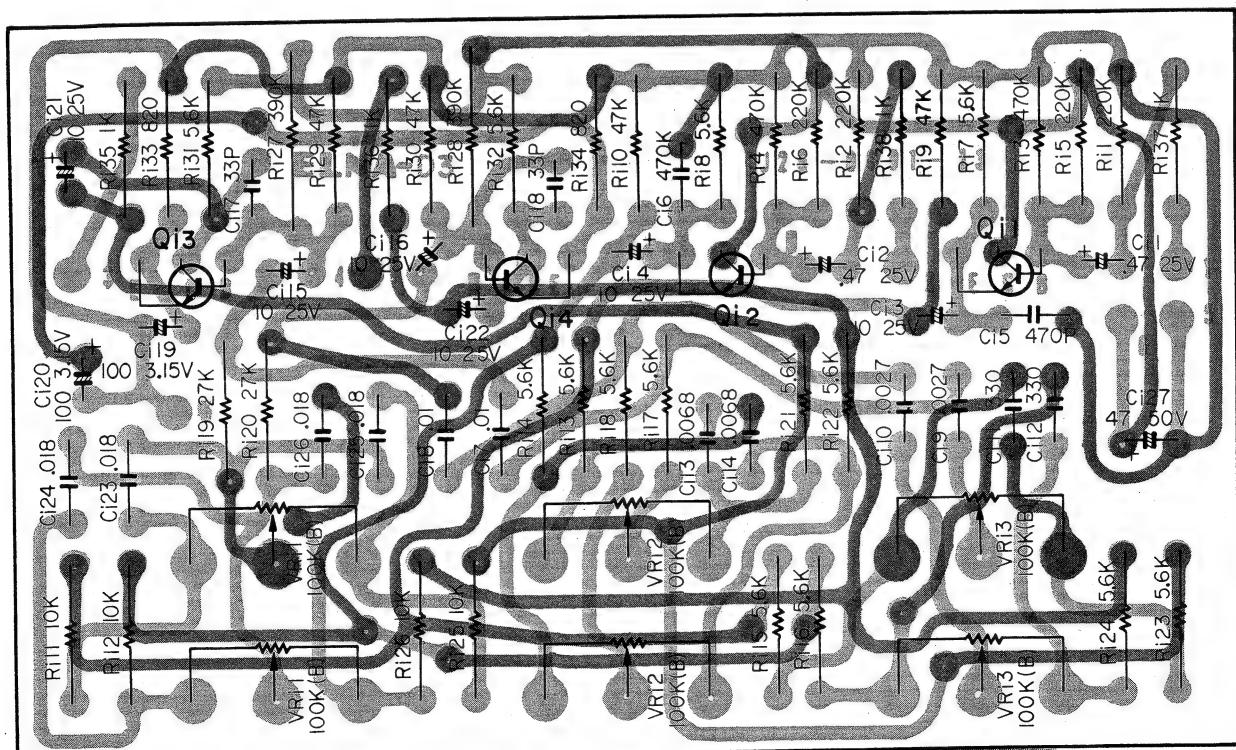
SCHEMATIC DIAGRAM

BOTTOM VIEW
OF
TRANSISTORS

2SC 1345



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Q11 ~ 4: 2SC1345 (E) or (F)

**TONE AMP (X11-0007-11) SECTION****PARTS DESCRIPTION LIST**

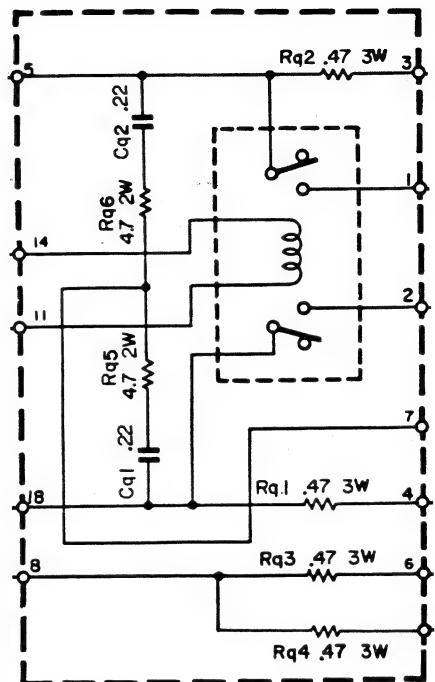
| Ref. No. | Parts No. | Description | | | | Remarks |
|----------------------|--------------|--------------------|----------------|--------|------|---------|
| CAPACITOR | | | | | | |
| Ci1, 2 | CS04D1ER47M | Tantalum | 0.47μF | 25WV | | |
| Ci3, 4 | CE04W1E100 | Electrolytic | 10μF | 25WV | | |
| Ci5, 6 | CK94YY1H471M | Ceramic | 470pF | ±20% | | |
| Ci7, 8 | CQ93M1H103J | Mylar | 0.01μF | ±5% | | |
| Ci9, 10 | CQ93M1H272J | Mylar | 0.0027μF | ±5% | | |
| Ci11, 12 | CQ08S1H331J | Polystyrene | 330pF | ±5% | | |
| Ci13, 14 | CQ93M1H682J | Mylar | 0.0068μF | ±5% | | |
| Ci15, 16 | CE04W1E100 | Electrolytic | 10μF | 25WV | | |
| Ci17, 18 | CC94SL1H330K | Ceramic | 33pF | ±10% | | |
| Ci19, 20 | CE04W0F101 | Electrolytic | 100μF | 3.15WV | | |
| Ci21, 22 | CE04W1E100 | Electrolytic | 10μF | 25WV | | |
| Ci23 ~ 26 | CQ93M1H183J | Mylar | 0.018μF | ±5% | | |
| Ci27 | CE04W1H470 | Electrolytic | 47μF | 50WV | | |
| RESISTOR | | | | | | |
| Ri1, 2 | PD14BY2E224J | Carbon | 220kΩ | ±5% | 1/4W | |
| Ri3, 4 | PD14BY2E474J | Carbon | 470kΩ | ±5% | 1/4W | |
| Ri5, 6 | PD14BY2E224J | Carbon | 220kΩ | ±5% | 1/4W | |
| Ri7, 8 | PD14BY2E562J | Carbon | 5.6kΩ | ±5% | 1/4W | |
| Ri9, 10 | PD14BY2E473J | Carbon | 47kΩ | ±5% | 1/4W | |
| Ri11, 12 | PD14BY2E103J | Carbon | 10kΩ | ±5% | 1/4W | |
| Ri13 ~ 18 | PD14BY2E562J | Carbon | 5.6kΩ | ±5% | 1/4W | |
| Ri19, 20 | PD14BY2E273J | Carbon | 27kΩ | ±5% | 1/4W | |
| Ri21 ~ 24 | PD14BY2E562J | Carbon | 5.6kΩ | ±5% | 1/4W | |
| Ri25, 26 | PD14BY2E103J | Carbon | 10kΩ | ±5% | 1/4W | |
| Ri27, 28 | RN92A2H394J | Metal film | 390kΩ | ±5% | 1/2W | |
| Ri29, 30 | PD14BY2E473J | Carbon | 47kΩ | ±5% | 1/4W | |
| Ri31, 32 | PD14BY2E562J | Carbon | 5.6kΩ | ±5% | 1/4W | |
| Ri33, 34 | PD14BY2E821J | Carbon | 820Ω | ±5% | 1/4W | |
| Ri35 ~ 37 | PD14BY2E102J | Carbon | 1kΩ | ±5% | 1/4W | |
| SEMICONDUCTOR | | | | | | |
| Q1 ~ 4 | | 2SC1345 (E) or (F) | | | | |
| POTENTIOMETER | | | | | | |
| VR1 | R08-5017-05 | Potentiometer | 100kΩ (B) dual | BASS | | |
| VR2 | R08-5017-05 | Potentiometer | 100kΩ (B) dual | TREBLE | | |
| VR3 | R08-5017-05 | Potentiometer | 100kΩ (B) dual | MID | | |



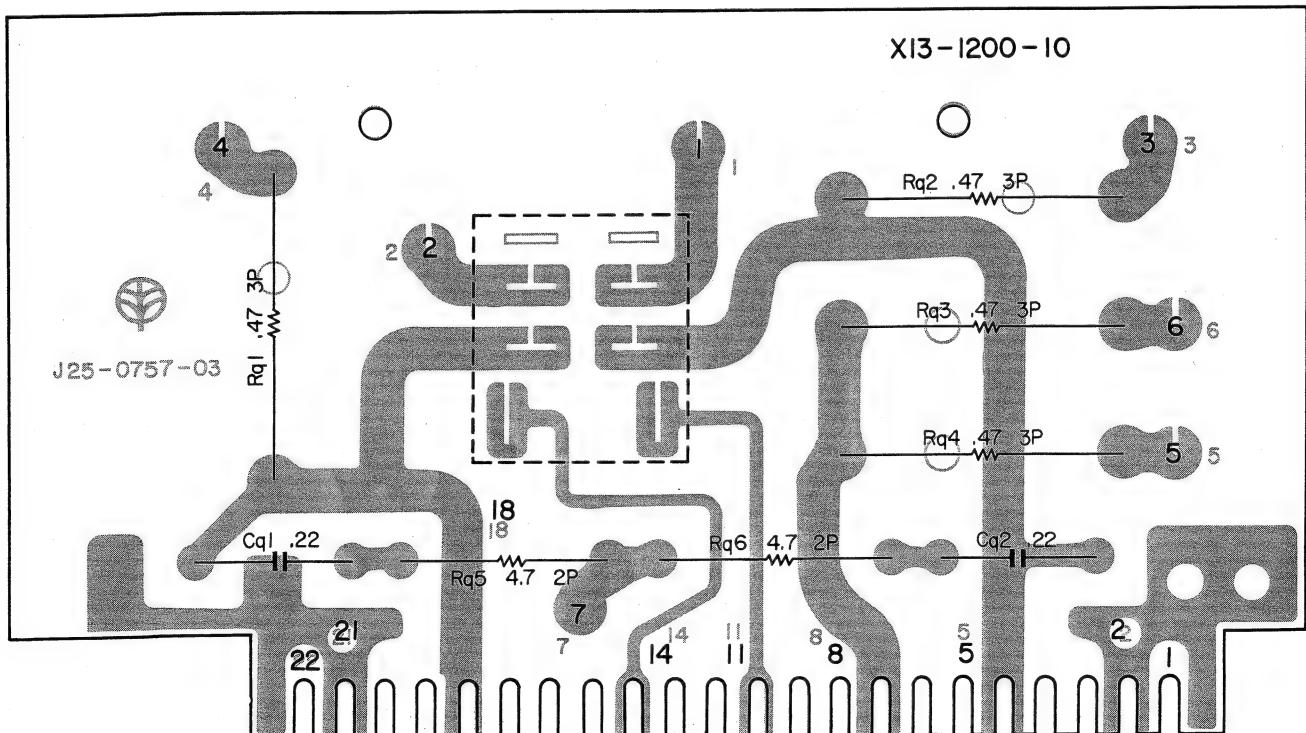
SUB MAIN (X13-1200-10) SECTION

(KR-6200)

SCHEMATIC DIAGRAM



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



**SUB MAIN (X13-1200-10) SECTION****PARTS DESCRIPTION LIST**

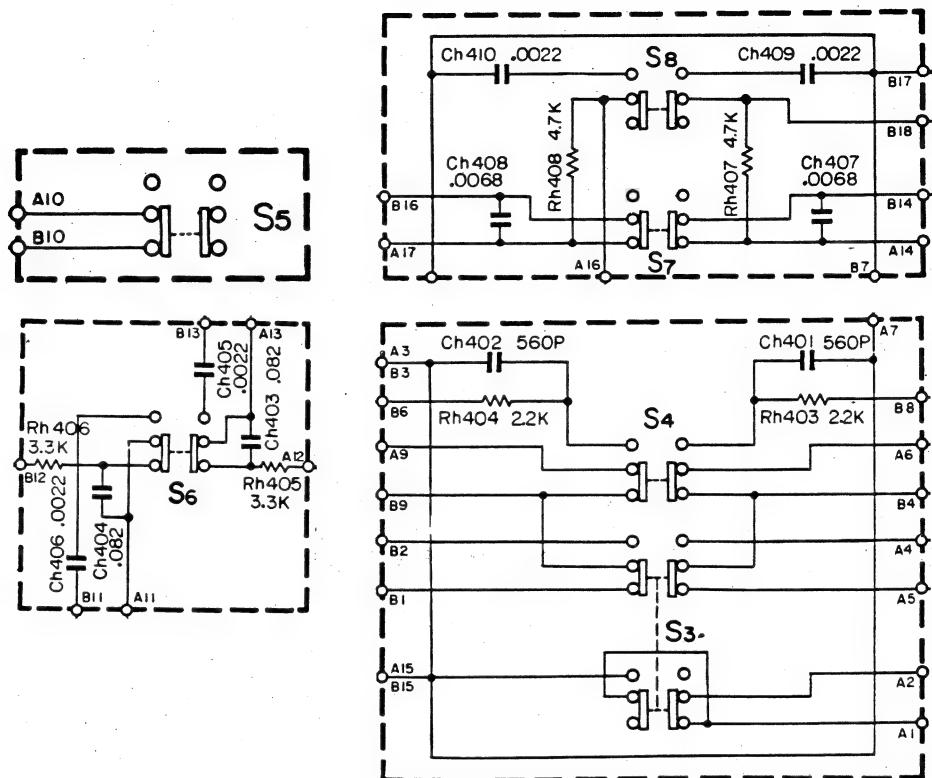
| Ref. No. | Parts No. | Description | | | Remarks |
|------------------|--------------|--------------|--------|------|---------|
| CAPACITOR | | | | | |
| Cq1, 2 | CQ93M1H224M | Mylar | 0.22μF | ±20% | |
| RESISTOR | | | | | |
| Rq1 ~ 4 | RN14AB3FR47J | Metal film | 0.47Ω | ±5% | 3W |
| Rq5, 6 | RN14AB3D4R7J | Metal film | 4.7Ω | ±5% | 2W |
| RELAY | | | | | |
| RLq1 | S51-2019-05 | Relay (LY-2) | | | UL |



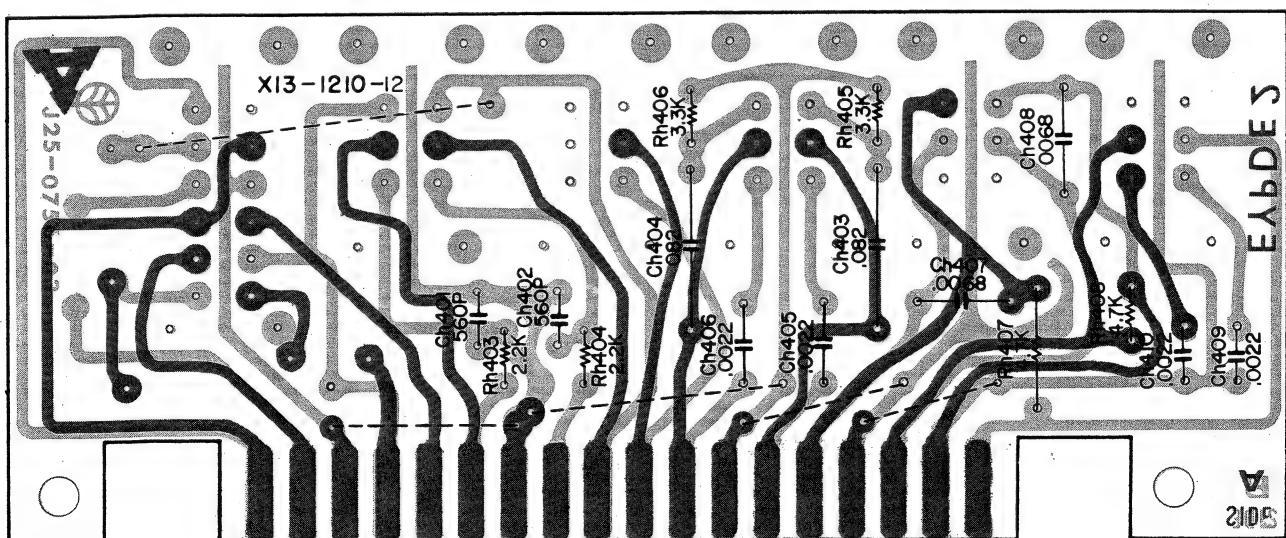
PUSH SWITCH (X13-1210-12) SECTION

(KR-6200)

SCHEMATIC DIAGRAM



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS




KENWOOD® PUSH SWITCH (X13-1210-12) SECTION
PARTS DESCRIPTION LIST

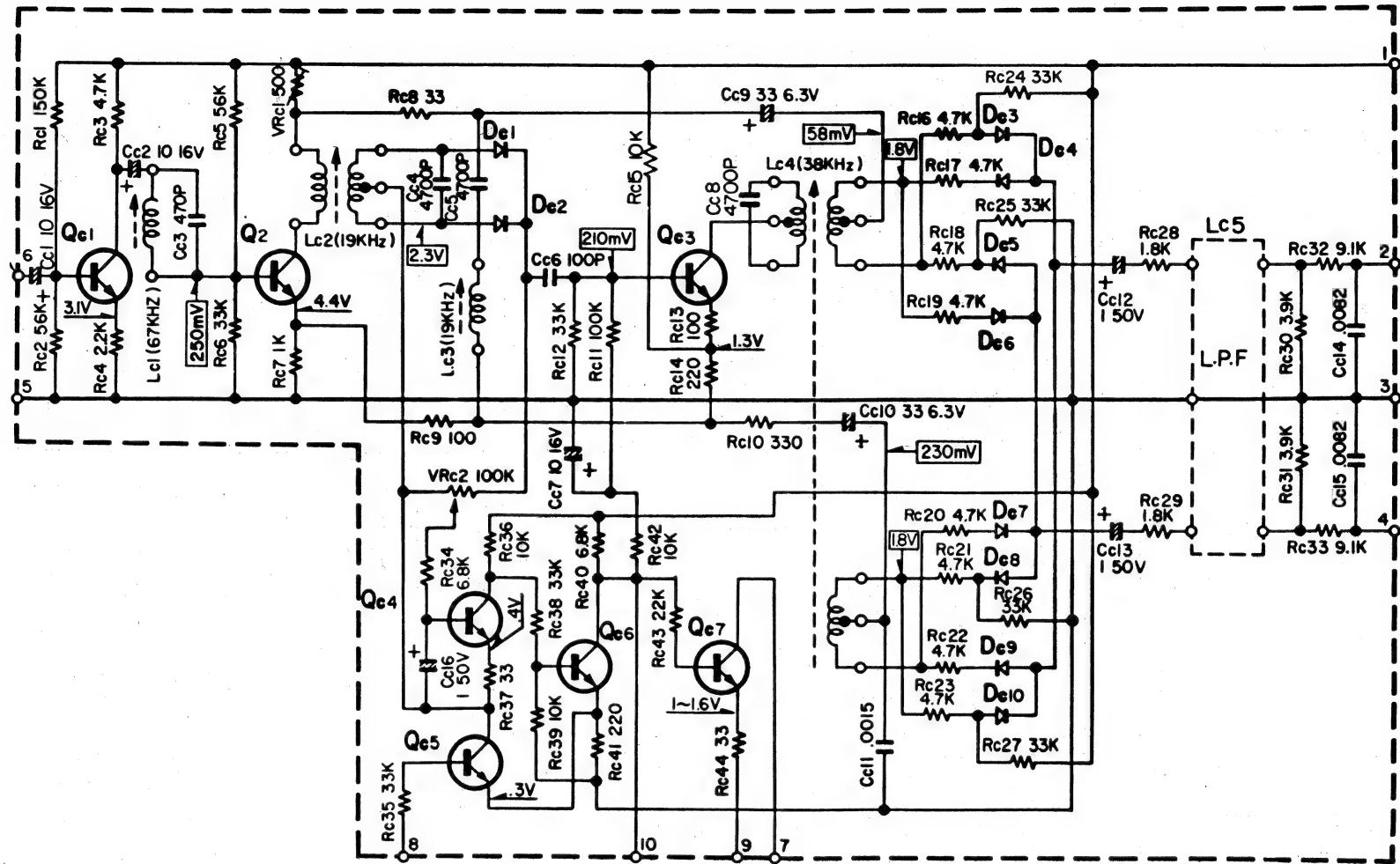
| Ref. No. | Parts No. | Description | | | Remarks |
|------------------|--------------|----------------------------|----------|------|---------|
| CAPACITOR | | | | | |
| Ch401, 402 | CK45D1H561M | Ceramic | 560pF | ±20% | |
| Ch403, 403 | CQ93M1H823K | Mylar | 0.082μF | ±10% | |
| Ch405, 406 | CQ93M1H222K | Mylar | 0.0022μF | ±10% | |
| Ch407, 408 | CQ93M1H682K | Mylar | 0.0068μF | ±10% | |
| Ch409, 410 | CQ93M1H222K | Mylar | 0.0022μF | ±10% | |
| RESISTOR | | | | | |
| Rh403, 404 | PD14BY2E222J | Carbon | 2.2kΩ | ±5% | 1/4W |
| Rh405, 406 | PD14BY2E332J | Carbon | 3.3kΩ | ±5% | 1/4W |
| Rh407, 408 | PD14BY2E472J | Carbon | 4.7kΩ | ±5% | 1/4W |
| SWITCH | | | | | |
| S3 | S40-6006-05 | Six pushbutton (TAPE-A) | | | |
| S4 | S40-6006-05 | Six pushbutton (TAPE-B) | | | |
| S5 | S40-6006-05 | Six pushbutton (FM MUTING) | | | |
| S6 | S40-6006-05 | Six pushbutton (LOUDNESS) | | | |
| S7 | S40-6006-05 | Six pushbutton (LO-FIL) | | | |
| S8 | S40-6006-05 | Six pushbutton (HI-FIL) | | | |



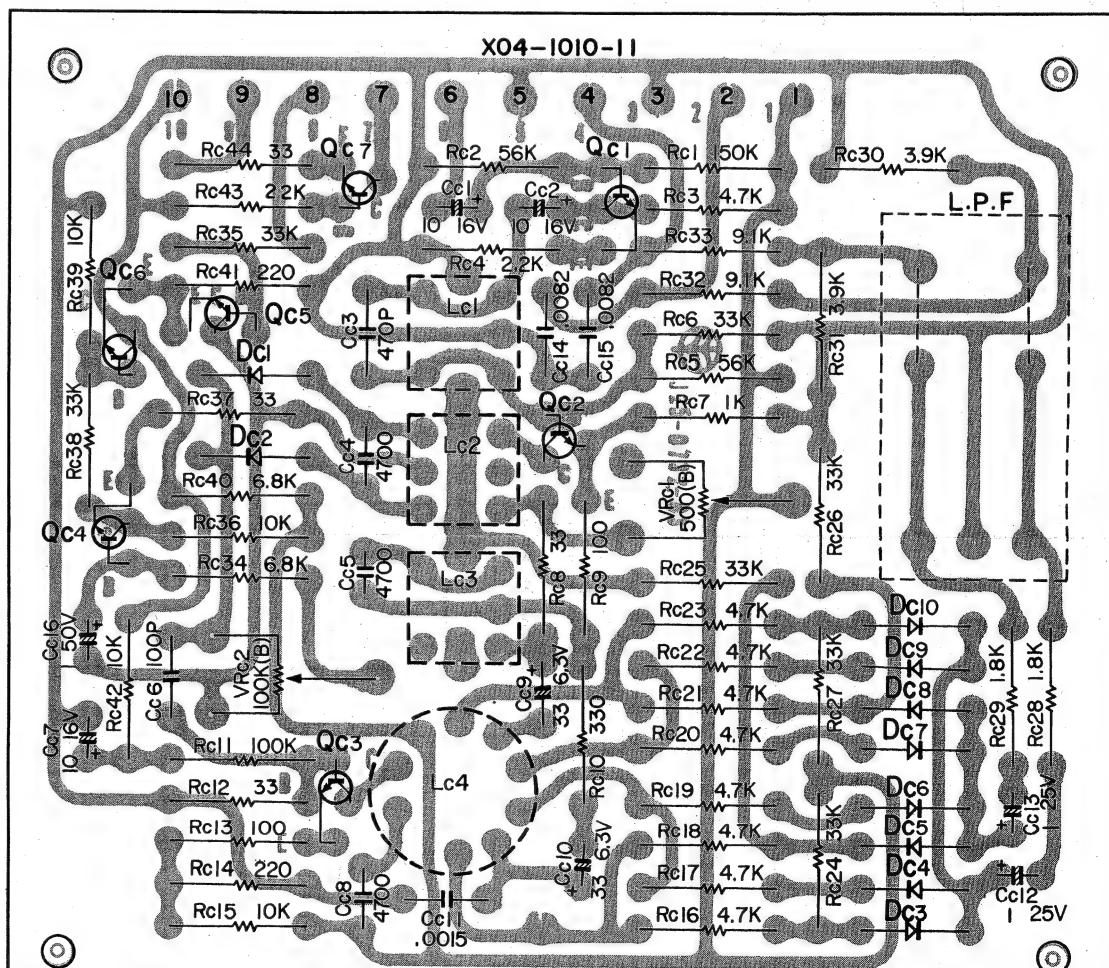
MPX (X04-1010-10) SECTION

(KR-7200) (KR-6200) (KR-5200)

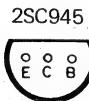
SCHEMATIC DIAGRAM



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



BOTTOM VIEW OF TRANSISTOR



Qc1 ~ 3: 2SC458 (D), Qc4 ~ 7: 2SC945 (Q), Dc1 ~ 10: 1N60

PARTS DESCRIPTION LIST

| Ref. No. | Parts No. | Description | | | | Remarks |
|----------------------|----------------|--|----------------|------------|------|---------|
| CAPACITOR | | | | | | |
| Cc1, 2 | CE04W1C100 | Electrolytic | 10 μ F | 16WV | | |
| Cc3 | CQ08S2B471J | Polystyrene | 470pF | $\pm 5\%$ | | |
| Cc4, 5 | CQ09S1H472J(X) | Polystyrene | 4700pF | $\pm 5\%$ | | |
| Cc6 | CC45SL1H101K | Ceramic | 100pF | $\pm 10\%$ | | |
| Cc7 | CE04W1C100 | Electrolytic | 10 μ F | 16WV | | |
| Cc8 | CQ09S1H472J(X) | Polystyrene | 4700pF | $\pm 5\%$ | | |
| Cc9, 10 | CE04W0J330 | Electrolytic | 33 μ F | 6.3WV | | |
| Cc11 | CQ93M1H152J | Mylar | 0.0015 μ F | $\pm 5\%$ | | |
| Cc12, 13 | CE04W1H010 | Electrolytic | 1 μ F | 50WV | | |
| Cc14, 15 | CQ93M1H822J | Mylar | 0.0082 μ F | $\pm 5\%$ | | |
| Cc16 | CE04W1H010 | Electrolytic | 1 μ F | 50WV | | |
| RESISTOR | | | | | | |
| Rc1 | PD14BY2E154J | Carbon | 150k Ω | $\pm 5\%$ | 1/4W | |
| Rc2 | PD14BY2E563J | Carbon | 56k Ω | $\pm 5\%$ | 1/4W | |
| Rc3 | PD14BY2E472J | Carbon | 4.7k Ω | $\pm 5\%$ | 1/4W | |
| Rc4 | PD14BY2E222J | Carbon | 2.2k Ω | $\pm 5\%$ | 1/4W | |
| Rc5 | PD14BY2E563J | Carbon | 56k Ω | $\pm 5\%$ | 1/4W | |
| Rc6 | PD14BY2E333J | Carbon | 33k Ω | $\pm 5\%$ | 1/4W | |
| Rc7 | PD14BY2E102J | Carbon | 1k Ω | $\pm 5\%$ | 1/4W | |
| Rc8 | PD14BY2E330J | Carbon | 33 Ω | $\pm 5\%$ | 1/4W | |
| Rc9 | PD14BY2E101J | Carbon | 100 Ω | $\pm 5\%$ | 1/4W | |
| Rc10 | PD14BY2E331J | Carbon | 330 Ω | $\pm 5\%$ | 1/4W | |
| Rc11 | PD14BY2E104J | Carbon | 100k Ω | $\pm 5\%$ | 1/4W | |
| Rc12 | PD14BY2E333J | Carbon | 33k Ω | $\pm 5\%$ | 1/4W | |
| Rc13 | PD14BY2E101J | Carbon | 100 Ω | $\pm 5\%$ | 1/4W | |
| Rc14 | PD14BY2E221J | Carbon | 220 Ω | $\pm 5\%$ | 1/4W | |
| Rc15 | PD14BY2E103J | Carbon | 10k Ω | $\pm 5\%$ | 1/4W | |
| Rc16 ~ 23 | PD14BY2E472J | Carbon | 4.7k Ω | $\pm 5\%$ | 1/4W | |
| Rc24 ~ 27 | PD14BY2E333J | Carbon | 33k Ω | $\pm 5\%$ | 1/4W | |
| Rc28, 29 | PD14BY2E182J | Carbon | 1.8k Ω | $\pm 5\%$ | 1/4W | |
| Rc30, 31 | PD14BY2E392J | Carbon | 3.9k Ω | $\pm 5\%$ | 1/4W | |
| Rc32, 33 | PD14BY2E912J | Carbon | 9.1k Ω | $\pm 5\%$ | 1/4W | |
| Rc34 | PD14BY2E682J | Carbon | 6.8k Ω | $\pm 5\%$ | 1/4W | |
| Rc35 | PD14BY2E333J | Carbon | 33k Ω | $\pm 5\%$ | 1/4W | |
| Rc36 | PD14BY2E103J | Carbon | 10k Ω | $\pm 5\%$ | 1/4W | |
| Rc37 | PD14BY2E330J | Carbon | 33 Ω | $\pm 5\%$ | 1/4W | |
| Rc38 | PD14BY2E333J | Carbon | 33k Ω | $\pm 5\%$ | 1/4W | |
| Rc39 | PD14BY2E103J | Carbon | 10k Ω | $\pm 5\%$ | 1/4W | |
| Rc40 | PD14BY2E682J | Carbon | 6.8k Ω | $\pm 5\%$ | 1/4W | |
| Rc41 | PD14BY2E221J | Carbon | 220 Ω | $\pm 5\%$ | 1/4W | |
| Rc42 | PD14BY2E103J | Carbon | 10k Ω | $\pm 5\%$ | 1/4W | |
| Rc43 | PD14BY2E223J | Carbon | 22k Ω | $\pm 5\%$ | 1/4W | |
| Rc44 | PD14BY2E330J | Carbon | 33 Ω | $\pm 5\%$ | 1/4W | |
| SEMICONDUCTOR | | | | | | |
| Qc1 ~ 3 | | 2SC458 (D) | | | | |
| Qc4 ~ 7 | | 2SC945 (Q) | | | | |
| Dc1 ~ 10 | | 1N60 | | | | |
| COIL/FILTER | | | | | | |
| Lc1 | L35-0050-05 | MPX coil | | | | |
| Lc2 | L35-0044-05 | MPX coil | | | | |
| Lc3 | L35-0054-05 | MPX coil | | | | |
| Lc4 | L35-0053-05 | MPX coil | | | | |
| Lc5 | L79-0014-05 | Low pass filter | | | | |
| POTENTIOMETER | | | | | | |
| VRc1 | R12-0047-05 | pc trimmer 500 Ω (B) SEPARATION | | | | |
| VRc2 | R12-5019-05 | pc trimmer 100k Ω (B) | | | | |



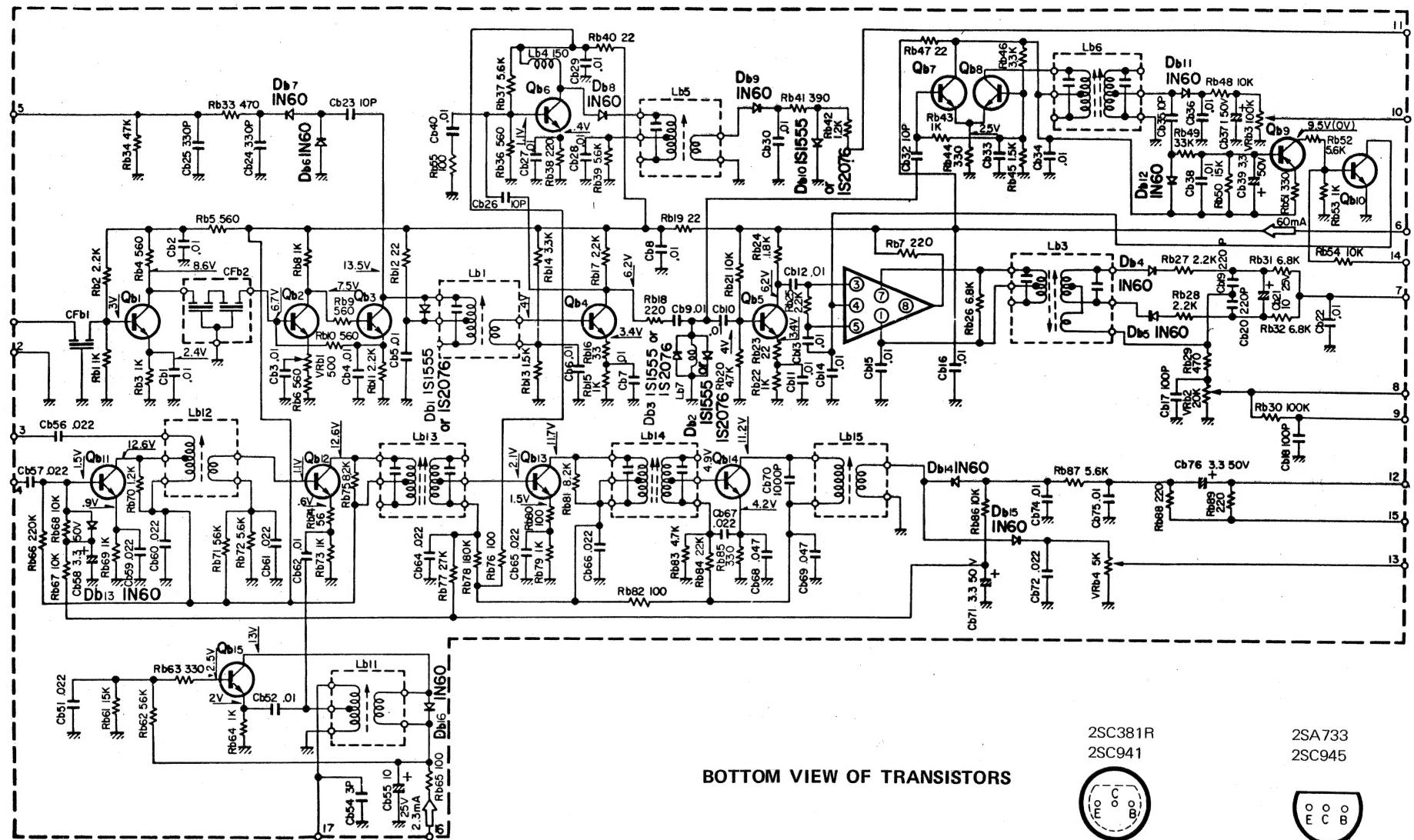
AM & FM-IF (X02-1020-10) SECTION

PARTS DESCRIPTION LIST

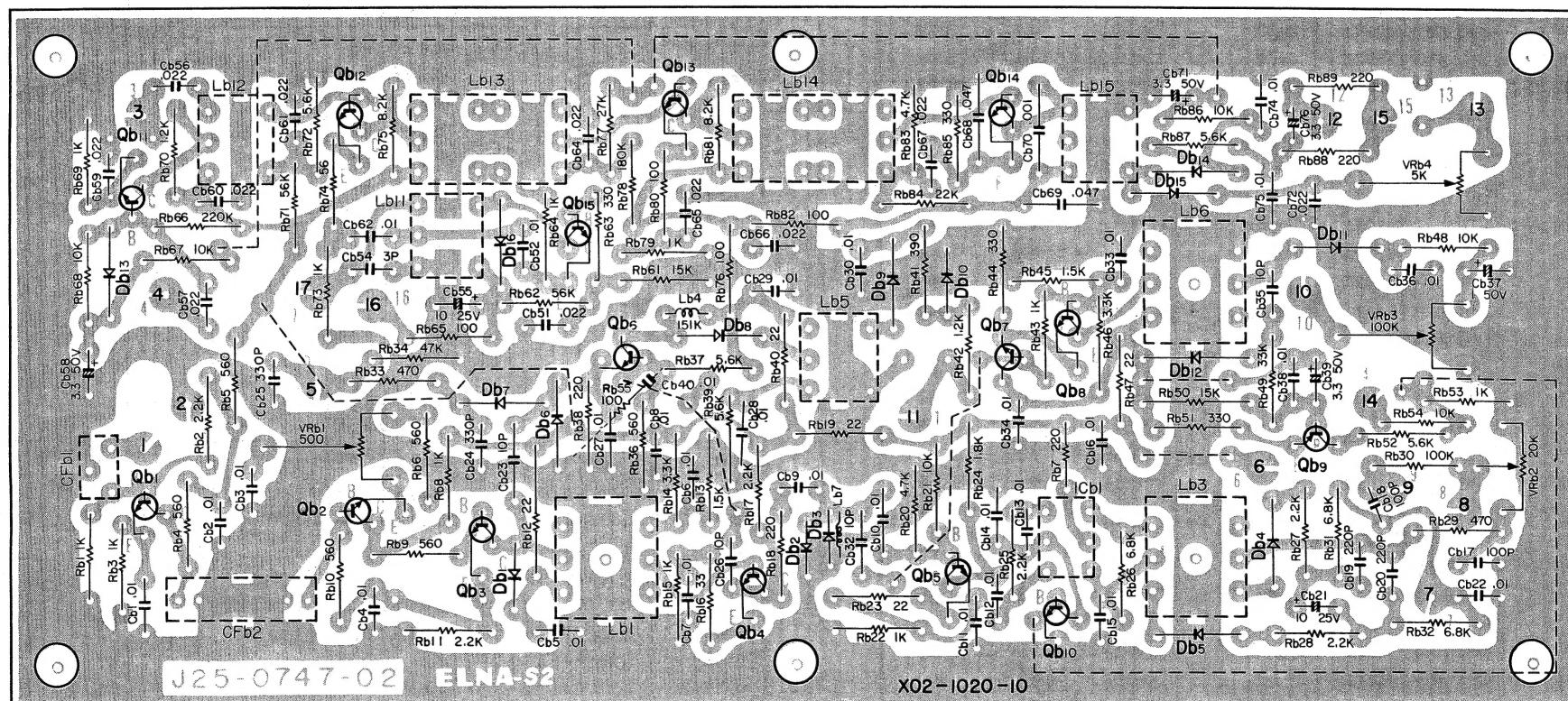
| Ref. No. | Parts No. | Description | | | Re-marks |
|------------------|----------------|--------------|---------|------------|----------|
| CAPACITOR | | | | | |
| Cb1~3 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | |
| Cb4 | CQ93M1H103K | Mylar | 0.01μF | ±10% | |
| Cb5~16 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | |
| Cb17, 18 | CC45SL1H101K | Ceramic | 100pF | ±10% | |
| Cb19, 20 | CC45SL1H221K | Ceramic | 220pF | ±10% | |
| Cb21 | CE04W1E100 | Electrolytic | 10μF | 25WV | |
| Cb22 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | |
| Cb23 | CC45SL1H100D | Ceramic | 10pF | ±0.5pF | |
| Cb24, 25 | CC45SL1H331K | Ceramic | 330pF | ±10% | |
| Cb26 | CC45SL1H100D | Ceramic | 10pF | ±0.5pF | |
| Cb27~30 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | |
| Cb32 | CC45SL1H100D | Ceramic | 10pF | ±0.5pF | |
| Cb33, 34 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | |
| Cb35 | CC45SL1H100D | Ceramic | 10pF | ±0.5pF | |
| Cb36 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | |
| Cb37 | CE04W1H010 | Electrolytic | 1μF | 50WV | |
| Cb38 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | |
| Cb39 | CE04W1H3R3 | Electrolytic | 3.3μF | 50WV | |
| Cb40 | CK45F1H103Z | Ceramic | 0.01μF | +80%, -20% | |
| Cb51 | CK45F1H223Z | Ceramic | 0.022μF | +80%, -20% | |
| Cb52 | CQ93M1H103K | Mylar | 0.01μF | ±10% | |
| Cb54 | CC45SL1H030C | Ceramic | 3pF | ±0.25pF | |
| Cb55 | CE04W1E100 | Electrolytic | 10μF | 25WV | |
| Cb56, 57 | CK45F1H223Z | Ceramic | 0.022μF | +80%, -20% | |
| Cb58 | CE04W1H3R3 | Electrolytic | 3.3μF | 50WV | |
| Cb59~61 | CK45F1H223Z | Ceramic | 0.022μF | +80%, -20% | |
| Cb62 | CQ93M1H103K | Mylar | 0.01μF | ±10% | |
| Cb64~67 | CK45F1H223Z | Ceramic | 0.022μF | +80%, -20% | |
| Cb68, 69 | CK45F1H473Z | Ceramic | 0.047μF | +80%, -20% | |
| Cb70 | CM93D1H102J(Z) | Mica | 1000pF | ±5% | |
| Cb71 | CE04W1H3R3 | Electrolytic | 3.3μF | 50WV | |
| Cb72 | CK45F1H223Z | Ceramic | 0.022μF | +80%, -20% | |
| Cb74, 75 | CQ93M1H103K | Mylar | 0.01μF | ±10% | |
| Cb76 | CE04W1H3R3 | Electrolytic | 3.3μF | 50WV | |
| RESISTOR | | | | | |
| Rb1 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W |
| Rb2 | PD14BY2B222J | Carbon | 2.2kΩ | ±5% | 1/8W |
| Rb3 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W |
| Rb4~6 | PD14BY2B561J | Carbon | 560Ω | ±5% | 1/8W |
| Rb7 | PD14BY2B221J | Carbon | 220Ω | ±5% | 1/8W |
| Rb8 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W |
| Rb9, 10 | PD14BY2B561J | Carbon | 560Ω | ±5% | 1/8W |
| Rb11 | PD14BY2B222J | Carbon | 2.2kΩ | ±5% | 1/8W |
| Rb12 | PD14BY2B220J | Carbon | 22Ω | ±5% | 1/8W |
| Rb13 | PD14BY2B152J | Carbon | 1.5kΩ | ±5% | 1/8W |
| Rb14 | PD14BY2B332J | Carbon | 3.3kΩ | ±5% | 1/8W |
| Rb15 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W |
| Rb16 | PD14BY2B330J | Carbon | 33Ω | ±5% | 1/8W |
| Rb17 | PD14BY2B222J | Carbon | 2.2kΩ | ±5% | 1/8W |
| Rb18 | PD14BY2B221J | Carbon | 220Ω | ±5% | 1/8W |
| Rb19 | PD14BY2B220J | Carbon | 22Ω | ±5% | 1/8W |
| Rb20 | PD14BY2B472J | Carbon | 4.7kΩ | ±5% | 1/8W |
| Rb21 | PD14BY2B103J | Carbon | 10kΩ | ±5% | 1/8W |
| Rb22 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W |
| Rb23 | PD14BY2B220J | Carbon | 22Ω | ±5% | 1/8W |
| Rb24 | PD14BY2B182J | Carbon | 1.8kΩ | ±5% | 1/8W |
| Rb25 | PD14BY2B222J | Carbon | 2.2kΩ | ±5% | 1/8W |
| Rb26 | PD14BY2B682J | Carbon | 6.8kΩ | ±5% | 1/8W |
| Rb27, 28 | PD14BY2B222J | Carbon | 2.2kΩ | ±5% | 1/8W |
| Rb29 | PD14BY2B471J | Carbon | 470Ω | ±5% | 1/8W |
| Rb30 | PD14BY2B104J | Carbon | 100kΩ | ±5% | 1/8W |
| Rb31, 32 | PD14BY2B682J | Carbon | 6.8kΩ | ±5% | 1/8W |
| Rb33 | PD14BY2B471J | Carbon | 470Ω | ±5% | 1/8W |
| Rb34 | PD14BY2B473J | Carbon | 47kΩ | ±5% | 1/8W |
| Rb36 | PD14BY2B561J | Carbon | 560Ω | ±5% | 1/8W |
| Rb37 | PD14BY2B562J | Carbon | 5.6kΩ | ±5% | 1/8W |
| Rb38 | PD14BY2B221J | Carbon | 220Ω | ±5% | 1/8W |
| Rb39 | PD14BY2B562J | Carbon | 5.6kΩ | ±5% | 1/8W |
| Rb40 | PD14BY2B220J | Carbon | 22Ω | ±5% | 1/8W |
| Rb41 | PD14BY2B391J | Carbon | 390Ω | ±5% | 1/8W |
| Rb42 | PD14BY2B122J | Carbon | 1.2kΩ | ±5% | 1/8W |

| Ref. No. | Parts No. | Description | | | | Re-marks |
|-----------------------------|--------------|------------------------|-----------|----------|------|----------|
| Rb43 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W | |
| Rb44 | PD14BY2B331J | Carbon | 330Ω | ±5% | 1/8W | |
| Rb45 | PD14BY2B152J | Carbon | 1.5kΩ | ±5% | 1/8W | |
| Rb46 | PD14BY2B332J | Carbon | 3.3kΩ | ±5% | 1/8W | |
| Rb47 | PD14BY2B220J | Carbon | 22Ω | ±5% | 1/8W | |
| Rb48 | PD14BY2B103J | Carbon | 10kΩ | ±5% | 1/8W | |
| Rb49 | PD14BY2B333J | Carbon | 33kΩ | ±5% | 1/8W | |
| Rb50 | PD14BY2B153J | Carbon | 15kΩ | ±5% | 1/8W | |
| Rb51 | PD14BY2B331J | Carbon | 330Ω | ±5% | 1/8W | |
| Rb52 | PD14BY2B562J | Carbon | 5.6kΩ | ±5% | 1/8W | |
| Rb53 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W | |
| Rb54 | PD14BY2B103J | Carbon | 10kΩ | ±5% | 1/8W | |
| Rb55 | PD14BY2B101J | Carbon | 100Ω | ±5% | 1/8W | |
| Rb61 | PD14BY2B153J | Carbon | 15kΩ | ±5% | 1/8W | |
| Rb62 | PD14BY2B563J | Carbon | 56kΩ | ±5% | 1/8W | |
| Rb63 | PD14BY2B331J | Carbon | 330Ω | ±5% | 1/8W | |
| Rb64 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W | |
| Rb65 | PD14BY2B101J | Carbon | 100Ω | ±5% | 1/8W | |
| Rb66 | PD14BY2B224J | Carbon | 220kΩ | ±5% | 1/8W | |
| Rb67, 68 | PD14BY2B103J | Carbon | 10kΩ | ±5% | 1/8W | |
| Rb69 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W | |
| Rb70 | PD14BY2B122J | Carbon | 1.2kΩ | ±5% | 1/8W | |
| Rb71 | PD14BY2B563J | Carbon | 56kΩ | ±5% | 1/8W | |
| Rb72 | PD14BY2B562J | Carbon | 5.6kΩ | ±5% | 1/8W | |
| Rb73 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W | |
| Rb74 | PD14BY2B560J | Carbon | 56Ω | ±5% | 1/8W | |
| Rb75 | PD14BY2B822J | Carbon | 8.2kΩ | ±5% | 1/8W | |
| Rb76 | PD14BY2B101J | Carbon | 100Ω | ±5% | 1/8W | |
| Rb77 | PD14BY2B273J | Carbon | 27kΩ | ±5% | 1/8W | |
| Rb78 | PD14BY2B184J | Carbon | 180kΩ | ±5% | 1/8W | |
| Rb79 | PD14BY2B102J | Carbon | 1kΩ | ±5% | 1/8W | |
| Rb80 | PD14BY2B101J | Carbon | 100Ω | ±5% | 1/8W | |
| Rb81 | PD14BY2B822J | Carbon | 8.2kΩ | ±5% | 1/8W | |
| Rb82 | PD14BY2B101J | Carbon | 100Ω | ±5% | 1/8W | |
| Rb83 | PD14BY2B472J | Carbon | 4.7kΩ | ±5% | 1/8W | |
| Rb84 | PD14BY2B223J | Carbon | 22kΩ | ±5% | 1/8W | |
| Rb85 | PD14BY2B331J | Carbon | 330Ω | ±5% | 1/8W | |
| Rb86 | PD14BY2B103J | Carbon | 10kΩ | ±5% | 1/8W | |
| Rb87 | PD14BY2B562J | Carbon | 5.6kΩ | ±5% | 1/8W | |
| Rb88, 89 | PD14BY2B221J | Carbon | 220Ω | ±5% | 1/8W | |
| SEMICONDUCTOR | | | | | | |
| Qb1~5 | | 2SC381 (O) | | | | |
| Qb6~8 | | 2SC381 (R) | | | | |
| Qb9 | | 2SA733 (Q) or (R) | | | | |
| Qb10 | | 2SC945 (Q) or (R) | | | | |
| Qb11 | | 2SC941 (O) | | | | |
| Qb12 | | 2SC941 (R) | | | | |
| Qb13 | | 2SC941 (O) | | | | |
| Qb14, 15 | | 2SC941 (R) | | | | |
| Db1~3 | | 1S1555 or 1S2076 | | | | |
| Db4~9 | | 1N60 | | | | |
| Db10 | | 1S1555 or 1S2076 | | | | |
| Db11~16 | | 1N60 | | | | |
| ICb1 | | CS5995 (B) | | | | |
| TRANS./COIL | | | | | | |
| Lb1 | L30-0243-05 | FM-IFT | | | | |
| Lb3 | L30-0207-15 | DISCRIMINATOR coil | | | | |
| Lb4 | L33-0098-05 | Ferri-inductor (150μH) | | | | |
| Lb5 | L30-0246-05 | Meter coil | | | | |
| Lb6 | L30-0244-05 | Trigger coil | | | | |
| Lb7 | L33-0098-05 | Ferri-inductor (150μH) | | | | |
| Lb11 | L32-0090-05 | AM-OSC coil | | | | |
| Lb12 | L31-0111-05 | AM-RF coil | | | | |
| Lb13, 14 | L30-0245-05 | AM-IFT | | | | |
| Lb15 | L30-0052-05 | AM-IFT | | | | |
| POTENTIOMETER/FILTER | | | | | | |
| VRb1 | R12-0047-05 | pc trimmer | 500Ω (B) | BIAS | | |
| VRb2 | R12-3014-05 | pc trimmer | 20kΩ (B) | FM-OUT | | |
| VRb3 | R12-5019-05 | pc trimmer | 100kΩ (B) | BEACON | | |
| VRb4 | R12-2016-05 | pc trimmer | 5kΩ (B) | AM-METER | | |
| CFb1 | L72-0010-05 | Ceramic filter | | | | |
| CFb2 | L72-0019-05 | Ceramic filter | | | | |

SCHEMATIC DIAGRAM

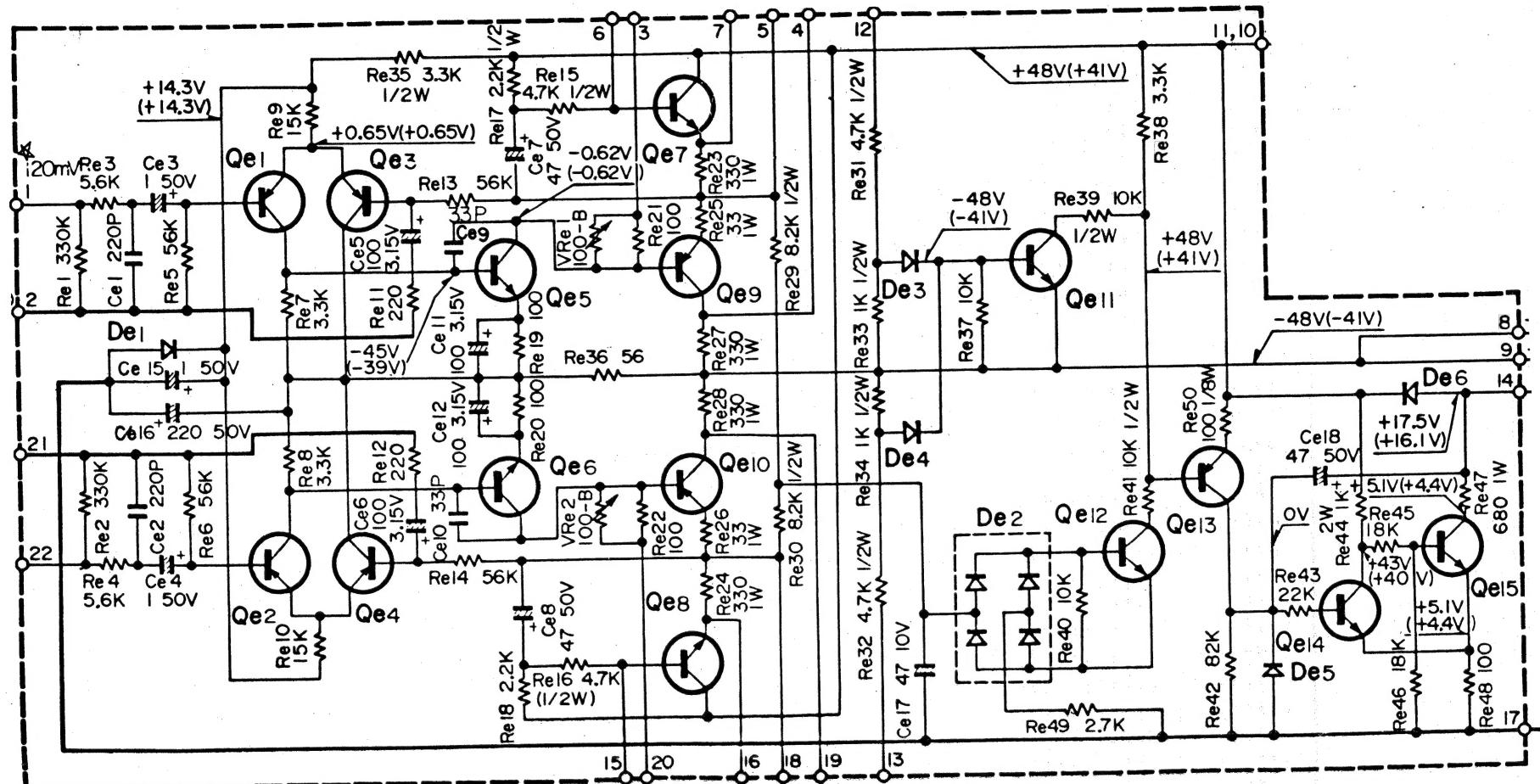


SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS

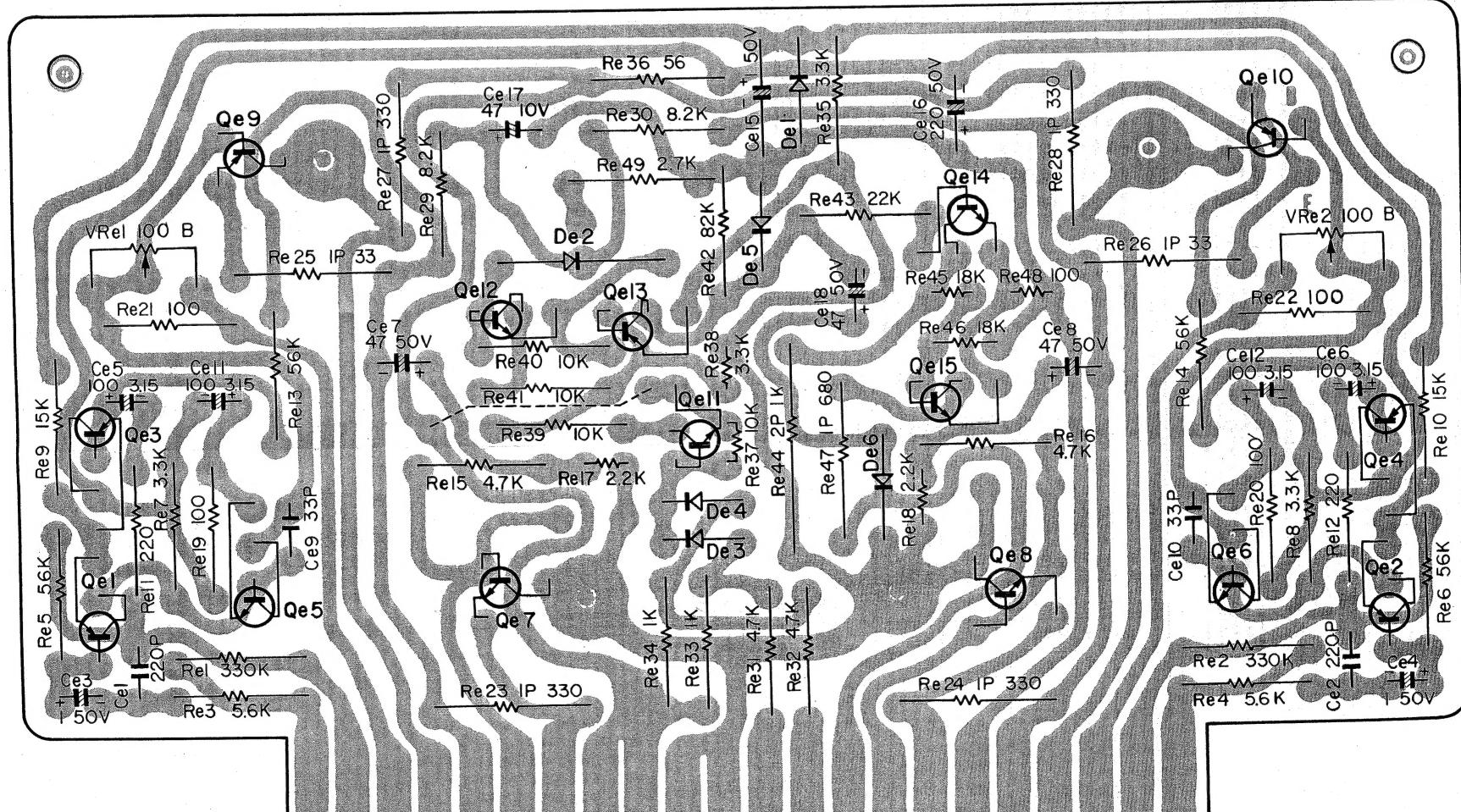


Qb1 ~ 5: 2SC381 (O), Qb6 ~ 8: 2SC381 (R), Qb9: 2SA733 (Q) or (R), Qb10: 2SC945 (Q) or (R), Qb11, 13: 2SC941 (O), Qb12, 14, 15: 2SC941 (R), Db1, 2, 3, 10: 1S1555 or 1S2076, Db4 ~ 9, 11 ~ 16: 1N60, 1Cb1: CS5995 (B)

SCHEMATIC DIAGRAM



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



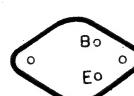
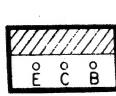
Qe1 ~ 4: 2SA620WL5, Qe5, 6: 2SC983 (Y), Qe7, 8: 2SC1161, Qe9, 10: 2SA653, Qe11: 2SC983 (R), Qe12: 2SC1213A (B), Qe13: 2SA673 (B) or (C),
Qe14, 15: 2SC1213A (B) or (C), De1: YZ-140, De2: S1RB-10, De3, 4: 1S1555, De5, 6: V0-6B

2SA620WL

2SC983
2SC1161

2SA653
2SC1161

**BOTTOM VIEW
OF
TRANSISTOR**



**MAIN AMP (X07-1110-10) SECTION****PARTS DESCRIPTION LIST**

| Ref. No. | Parts No. | Description | | | | Remarks |
|----------------------|----------------|---------------------|----------|--------|------|---------|
| CAPACITOR | | | | | | |
| Ce1, 2 | CC45SL1H221K | Ceramic | 220pF | ±10% | | |
| Ce3, 4 | CE04W1H010 | Electrolytic | 1μF | 50WV | | |
| Ce5, 6 | CE04W0F101 | Electrolytic | 100μF | 3.15WV | | |
| Ce7, 8 | CE04W1H470 | Electrolytic | 47μF | 50WV | | |
| Ce9, 10 | CC45SL1H330K | Ceramic | 33pF | ±10% | | |
| Ce11, 12 | CE04W0F101 | Electrolytic | 100μF | 3.15WV | | |
| Ce15 | CE04W1H010 | Electrolytic | 1μF | 50WV | | |
| Ce16 | CE04W1H221 | Electrolytic | 1μF | 50WV | | |
| Ce17 | CE04W1A470(NP) | Electrolytic | 47μF | 10WV | | |
| Ce18 | CE04W1H470 | Electrolytic | 47μF | 50WV | | |
| RESISTOR | | | | | | |
| Re1, 2 | PD14BY2E334J | Carbon | 330kΩ | ±5% | 1/4W | |
| Re3, 4 | PD14BY2E562J | Carbon | 5.6kΩ | ±5% | 1/4W | |
| Re5, 6 | PD14BY2E563J | Carbon | 56kΩ | ±5% | 1/4W | |
| Re7, 8 | PD14BY2E332J | Carbon | 3.3kΩ | ±5% | 1/4W | |
| Re9, 10 | PD14BY2E153J | Carbon | 15kΩ | ±5% | 1/4W | |
| Re11, 12 | PD14BY2E221J | Carbon | 220Ω | ±5% | 1/4W | |
| Re13, 14 | PD14BY2E563J | Carbon | 56kΩ | ±5% | 1/4W | |
| Re15, 16 | RC05GF2H472K | Carbon | 4.7kΩ | ±10% | 1/2W | |
| Re17, 18 | RC05GF2H222K | Carbon | 2.2kΩ | ±10% | 1/2W | |
| Re19 ~ 22 | PD14BY2E101J | Carbon | 100Ω | ±5% | 1/4W | |
| Re23, 24 | RN14AB3A331K | Metal film | 330Ω | ±10% | 1W | |
| Re25, 26 | RN14AB3A330K | Metal film | 33Ω | ±10% | 1W | |
| Re27, 28 | RN14AB3A331K | Metal film | 330Ω | ±10% | 1W | |
| Re29, 30 | RC05GF2H822K | Carbon | 8.2kΩ | ±10% | 1/2W | |
| Re31, 32 | RC05GF2H472K | Carbon | 4.7kΩ | ±10% | 1/2W | |
| Re33, 34 | RC05GF2H102K | Carbon | 1kΩ | ±10% | 1/2W | |
| Re35 | RC05GF2H332K | Carbon | 3.3kΩ | ±10% | 1/2W | |
| Re36 | PD14BY2E560J | Carbon | 56Ω | ±5% | 1/4W | |
| Re37 | PD14CY2E103J | Carbon | 10kΩ | ±5% | 1/4W | |
| Re38 | PD14CY2E332J | Carbon | 3.3kΩ | ±5% | 1/4W | |
| Re39 | RC05GF2H103K | Carbon | 10kΩ | ±10% | 1/2W | |
| Re40 | PD14BY2E103J | Carbon | 10kΩ | ±5% | 1/4W | |
| Re41 | RC05GF2H103K | Carbon | 10kΩ | ±10% | 1/2W | |
| Re42 | PD14BY2E823J | Carbon | 82kΩ | ±5% | 1/4W | |
| Re43 | PD14BY2E223J | Carbon | 22kΩ | ±5% | 1/4W | |
| Re44 | RN14AB3D102K | Metal film | 1kΩ | ±10% | 2W | |
| Re45, 46 | PD14CY2E183J | Carbon | 18kΩ | ±5% | 1/4W | |
| Re47 | RN14AB3A681K | Metal film | 680Ω | ±10% | 1W | |
| Re48 | PD14CY2E101J | Carbon | 100Ω | ±5% | 1/4W | |
| Re49 | PD14BY2E272J | Carbon | 2.7kΩ | ±5% | 1/4W | |
| Re50 | PD14BY2B101J | Carbon | 100Ω | ±5% | 1/8W | |
| SEMICONDUCTOR | | | | | | |
| Qe1 ~ 4 | | 2SA620WL5 | | | | |
| Qe5, 6 | | 2SC983 (Y) | | | | |
| Qe7, 8 | | 2SC1161 | | | | |
| Qe9, 10 | | 2SA653 | | | | |
| Qe11 | | 2SC983 (R) | | | | |
| Qe12 | | 2SC1213A (B) | | | | |
| Qe13 | | 2SA673 (B) or (C) | | | | |
| Qe14, 15 | | 2SC1213A (B) or (C) | | | | |
| De1 | | YZ-140 | | | | |
| De2 | | S1RB-10 | | | | |
| De3, 4 | | 1S1555 | | | | |
| De5, 6 | | V0-6B | | | | |
| POTENTIOMETER | | | | | | |
| VRe1, 2 | R12-0048-05 | pc trimmer | 100Ω (B) | BIAS | | |